The Mining Journal RAILWAY AND COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 765.---Vol. XX.]

LONDON, SATURDAY, APRIL 20, 1850.

PRICE 6D.

YORKSHIRE.—On WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, and MONDAY, April 24, 25, 26, 27, and 29, 1850.

ay Contractors and Proprietors, Timber Merchants, Builders, Miners, Engineers ounders, Carriers, Brokers, Smiths, and others.—Very Important Sale of altensive and Valuable Materials, Plant, Steam-Engines, Canal Boats, Trucks ments, Rails, Tools, Machinery, and other property lately used in the formation satruction of a work of great magnitude and mechanical skill, known as the distanced to the contract of the Manchester and Huddersfield Branch of the nand North-Western Railway.

MR. WHEATLEY KIRK has the pleasure to announce, that he is honoured with instructions from Thos. Nicholson, Esq., the eminent contractor, who has finished his contract, to SELL, BY AUCTION, on Wednesday, Thurstay, Friday, Saturday, and Monday, April 24th, 25th, 26th, 27th, and 29th, 1860, all the VALUABLE RAILWAY PLANT, MATERIALS, &c

VALUABLE RAILWAY PLANT, MATERIALS, &c., used in the CONSTRUCTION and COMPLETION of STANDEDGE TUNNEL, in MARSDEN, and the adjoining RAILWAY WORKS, amongst which may be enumerated—Five 29-horse power High-PRESSURE STEAM-ENGINES. These oughnes have all vrought-iron sates, and capable of being made from 10 or 29 horses' more, with an extra cylinder. No. 1 engine has a 39-horse bolier: No. 2, 4, 4, and 5, have two boliers each, 34 ft. long, 6 ft. diameter, and circular ends, all in excellent working condition, and nearly new. Also one 12-horse power high-pressure steam-ongine, which has a capital mount and strong temporary rails, chairs, excellentality and takened a hearty 400 to 34 royes; large quantity of excellentality of excellentality of the second condition, and the second condition of the second condition of

valuable effects.

Detailed particulars are being prepared in catalogues, which may be obtained, five days prior to the sale, at the offices of the auctioneer, 68, Cross-street, King-street, in Manchester. Catalogues will also be forwarded to gentlemen at a distance, upon receipt of six postage stamps.

P.S.—The principal plant is within five minutes' walk of the Marsden Station, and also adjoins the canal and turnpike road, which will render the goods easy of transit.

First Day.—Part timber, sleepers, waggons, part of smiths' shops, wrought and casi second Day.—Part timber, new part of smiths' shops, wrought and casi second Day.—Part timber part of smiths' shops, wrought and casi second Day.—Part timber part of smiths' shops, wrought and casi

netal, five canal loats, &c.

Second Day.—Fart timber, part of smithe' shops, crabs, chains, wrought and cast metal, ay mare, whitechapel, gig, waggon, carts, harness, chaff engines, &c.

Third Day.—Fart timber, stores, tools, turn-tables, heavy implements, weighing markine, waggons, ralis, crabs, &c.

Fourth Day.—This day's sale will commence at Woolroad, about five minutes' walk rom tie Saddeworth station—consequently, parties coming by rail must alight at this tation. The order of selling will be 14 canal boats, five 25-horse power steam-engines, as ditto, 12-horse ditto, with mortar-mill, engine-houses, sheds, buildings, capstans, utfle-rods, ropes, &c.

collaneous effects.
The morning trains leave Manchester at 8 45 and 10 30 a.m., and Leeds at 9 30 and 10 45 a.m. The sale will commence each morning at a few rainutes after Eleven o'clock to give time for the arrival of the trains from Manchester, Leeds, Birmingham, Sheffield Huddersfield, Bolton, &c., which stop at Marsden station.

TO CAPITALISTS.—FOR SALE, a most valuable FREEHOLD PROPERTY, called the DARLASTON COAL MINES, situate at EXHALL,
heageloventry, WARWIGKSHIRE, consisting of ONE HUNDRED AGRES, or thereabouts, containing both COAL and IRONSTONE. This coal ground offers abundant resources for a first-rate colliery; it adjoins several collieries which are in great activity—
the supply of coals being quite unequal to the domand. The Coventry and Nuneaton
Rallway runs over a corner of the ground, thereby affording locomotive carriage to all
parts of the kingdom.

This property offers a very fair investment to capitalists, or for a public company, and
tha proprietor will render every facility to a purchaser, by leaving theighreater part of the
purchase-money on mortgage, if required; or in case of a public company, he would take
a royalty on the proceeds of the mines.

Raferences may be made to Mossra. Field, Son, and Wood, stockbrokers, Warnfordcourt, Throgmorton-street, and to Messra. Ellis and Son, estate agents, Mo. 36, Fenchurci-street, London.

A plan of the ground, with further particulars, may be obtained by applying (by leiter.

A plan of the ground, with further particulars, may be obtained by applying (by letter ost-paid) to Mr. George Fowler, No. 9, Lincoln's Inn-fields, London.

FOR SALE, OR LEASE.—The YORK AND CARLETON MINING COMPANY will SELL, or LEASE, — The YORK AND CARLETON MINING COMPANY will SELL, or LEASE, on moderate torms, THREE several MINING LOTS. 3 miles square each, for the term of 24 years, on each of which there is an abundance, of RED and BROWN HEMATITE ORE, yielding from 30 to 50 per cent. of as upperior quality of iron; the ore is subject to a lordship of 5 per cent. to the Crown on its value before being quarried; there is also plenty of WOOD and LIME-STONE in the immediate vicinity of the said lots. There is also a WATER POWEE on each lot, sufficient to drive all the machinery necessary for carrying on the manufacturing of iron.—Also, a PART of a MINING LOT, for a torm of 56 years, containing plenty of the same description of ore, with every privilege for manufacturing iron, which is subject to a lordship of one halpenny currency on the value of each ton of fron smelted.

The whole of the above are situated within 2 miles of the River Saint John, in the county of Carleton, near Woodstock, in the province of New Brunawick.

For further information, please inquire of Messra. Camron, Miller, and Co., Liverpool; or to the York and Carleton Mining Company, Saint John, N.B.

EAD MINES TO BE LET—the LEAD MINES of FEE
DONALD, situated in the MINING DISTRICT of STRONTIAN, ARGYLLSHIRE.—The ORE is a good SULPHURET, yielding, by correct analysis, 87 per cent, of
lead. There are several veins which have been partially worked, and hold out encouraging prospects of success; they are favourably situated for free levels, and a stream (important for washing the ore. &c.) floors across thom. An easy road, a few miles in length,
will convey the produce to Loch Sunarh, an arm of the sea (western ocean), whence it
may be transported to any part of the United Kingdom.

The district has been surreyed by Mr. Rise, lecturer on mineralogy: and for further
particulars application may be made to Messers. Inglis and Burns, W.S., 16, Queen-street; or
Mr. Alex. Rise, mineralogist, 2, Drammond-street, Edinburgh; and Mr. John Watson,
factor, Strontian, Argylishiro.—Edinburgh, April 18, 1850.

WINERAL PROPERTY.—TO BE DISPOSED OF, a valuable MINERAL PROPERTY, in the centre of the mining district of CAR-DIGANNHIRE, within 3 miles of the Lisburne Mines. The lodes of the adjacent mines run through the property, which contains upwards of 110 acres, with the right of working minerais on an additional extent of 500 acres beyond that circle as surface, which would be disposed of with the mineral rights. There is sample water-power, and the fee-simple of the soil, with minerals, will be disposed of by the proprietor.—Particulars may be acquired on application to Mr. Henry English, 36, Fielet-street, London.

A Few SHARES in a RIGH SILVER-LEAD MINE to be DISPOSED OF.—Applications to be made to Mr. Durrant, 68, Lombard-street.

CAST OF SCOTLAND MALLEABLE IRON COMPANY. The Directors have been authorised to RECEIVE OFFERS for the FURCHASE, ASE, of the MALLEABLE IRON WORKS at DUNFERMLINE—comprising a M.ENGINE, of 69-horse power, working the machinery, consisting of FORGE and DDLE BAR TRAINS, of 16 inches diameter, HAMMER and PATENT SHING-2 PUDDLE BAR TRAINS, of 16 inches diameter, HAMMER and PATENT SHING-LING MACHINE; also a 16-inch MERCHANT BAR or RAIL MILL, a 12-inch MILL, for ordinary sized merchant bars, and an 8-inch GUIDE MILL, 13 PUDDLING PURNACES, and 6 MILL FURNACES—the whole capable of producing 120 tons of bar-

NACES, and 6 MILL FURNACES—the whole capable of producing 120 tons of barion weekly.

A REFINERY STEAM-ENGINE, of 45-horse power, with blowing apparatus, complete, and two fires ersced.

A complete SET of WORKSHOPS, contaming a 20-horse power STEAM-ENGINE, driving a powerful roll-turning lathe, and blowing apparatus for smiths fires.

A PUMPING and CLAY MILL STEAM-ENGINE, of 16-horse power, used for the manufacture of fire-brick, and pumping water for supply of engines.

Also, in course of erection, a STEAM-ENGINE, of 80-horse power, intended to drive the mills apart from the forges, having strong cast-from framing laid down, and machinery suitable on the premises, which could be brought into active operation in a short period. Together with the necessary TOOLS, LOOSE MACHINERY and STOCKS, of different kinds.

ferent kinds.

Offers will also be received for the PURCHASE of the ESPATE of TRANSY, consisting of about 107 imperial acres, with elegant MANSION-HOUSE and PLEASURE GROUNDS, situated about half a mile to the east of the town of Dunfurnline.

Applications may be made to Mr. Talbot, manager of the works; or to Johnstone, Russell, and Craig, writers, Daniermline.

Dunfurnline, March 16, 1850.

THE MINING ALMANACK for 1850: compiled and arranged by HENRY ENGLISH, Mining Engineer, &c. Under the especial sanction and patronage of H.R.H. PRINCE ALBERT, Lord Warden of the Stamaries, Chief Steward of the Duchy of Gerawall, Devon, &c.—THE SECOND VOLUME will appear early in MAY NEXT with ADDITIONAL TABLES and STATISTICS, connected with the Mining Interests.—Names of subscribers are requested by as addressed to Mr. H. English,

WILNECOTE, NEAR FAZELEY.—TO BE LET, on Royalty, extensive MINES of COAL, IRONSTONE, and CLAY, at Wilnecote, immediately adjoining the Midland Rallway.—Apply to Mr. Parsons, Wilnecote.

March 31, 1890.

AST OF SCOTLAND MALLEABLE IRON COMPANY HAST OF SCOTLAND MALLEABLE INON COMPANY.

—Notice is hareby given, that a SPECIAL GENERAL MEETING of the shareholders of the EAST OF SCOTLAND MALLEABLE IRON COMPANY will be HELD
within the Town House of Dunfermiline upon Thursday, the 22d day of August next, 1850,
at Twelve o'clock noon, for the purpose of considering a proposal to DISSOLYE the said
COMPANY, and to SELL and realise the whole PROPERTY and ESTATE, and FUNDS
and EFFECTS of the Company, and finally to wind-up the Company's affairs—all in
terms of the 37th clause of the Contract of Copartnery of the said Company.

By order of the Directors,

JAMES INGLIS, Chairman.

Dunfermline, Feb. 6, 1850.

Dunfermline, Fob. 6, 1850.

JOHN DRYSDALE, Interim Secretary.

V STON IRON WORKS, NEAR SHEFFIELD.—

Messis, Rangeley, Wright, and Co. invite the attention of IRON MANUPACTURERS, IRON FOUNDERS, &c., to their DERBYSHIRE PIG-IRON (amelied
entirely with coke), which they can with condense recommend for all purposes where
purity of metal, combined with tenacity or strength, is an object. Their No. 3 pig-iron
is sufficiently field for all descriptions of foundry-work. PIPING made from this quality will admit of almost any amount of hydraulic pressure. As a mixture with tender
lrons, or for purposes requiring great strength, their No. 4 is particularly adapted. For
PORGE FURPOSES, the loss from waste in clader, &c., is much below the usual avrage, and the product a way superior iron.

Messirs, R., W., and Co. also beg to inform RAILWAY CONTRACTORS, ENGINEERS,
OAS and WATER-WORKS COMPANIES, BUILDERS, MILLWRIGHTS, &c., that
having purchased an extonsive associations, and apparatus from Messirs, Win,
Graham and Co., of Million from-works (who have declined business), and having enagaed experienced workmen from that each blistiment, they are in a position to furnish
ALL DESCRIPTIONS OF CASTINGS, suitable for the above branches, and at moderste prices.

INDURATED AND IMPERVIOUS STONE, CHALK, &c. ND(IRATED AND IMPERVIOUS STONE, CHAIR, &c.
—AGENTS, with capital, are WANTED in all TOWNS to SUPPLY (under British
and Foreign Patents) the great demand for HUTCHISONISED MATERIALS—hard as
granite, impervious to moisture, vernit, &c.; the cheapest and most durable for all
buildings, hydraulic, paving, monuments! and decorative work.—The profits are large.

140, Strand, London; or Tunbridge Wells, Kent, and Caen, Normandy, stating name,
address, and capital at command.

N.B.—Houses cured of damp. The produce of soft stone quarries, chalk, plaster of
Paris, wood, pasteboard, and all absorbent materials indurated to resist frost, vermin, &c.

LICENCES GRANTED.

PEAT CHARCOAL AND SANITARY REFORM.-PLANS and PROPOSITION salestited to the METROPOLITAN CO PLANS and PROPOSITION satestited to the METROPOLITAN COMMIS-SIONERS OF SEWERS by Mr. JASPER W. ROGERS, C.E., for the "Sanitary Re-form" of London, BY THE AID OF PEAT CHARCOAL, are open, at these offices, free for inspection—and the public is specially invited to examine them. A pamphlet, containing the proposition, with estimates, and a few facts from the press, fixe, may be all crafts.

or inspection.

A pamplist, containing the proposition, when containing the proposition, when containing the proposition, when containing the proposition, which analyses of its components, can be seen as a component of the comp

PROPELLING.—TO ENGINEERS AND OTHERS.—
The INVENTORS of a NEW MODE of PROPELLING having secured the ENGLISH PATENT, and CONSTRUCTED an EXPERIMENTAL BOAT, which has far exceeded their expectations, are desirous of meeting with CAPITALISTS to SECURE the
SCOTCH and OTHER PATENTS, on liberal same.
For particulars apply to Mr. W. Binns, patent and consulting engineer, No. 43,
Trinity-square, Southwark.

STEAM TO INDIA AND CHINA, YIA EGYPT.—Regula MONTHLY MAIL (ateam conveyance) for PASSENGERS and LIGHT GOOD to CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from less on or about the 10th of the month.

BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th if the month, to Malta, thence to Alexandris by her Majesty's steamers, and from Sues by the Honourable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. CONSTANTS COPE—On the 29th of the month. ALEXANDRIA—On the 20th of the month. SPAIN AND PORTUGAL. - Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th 7th, and 27th of the month.

For plans of the vessels, rates of passage-money, and to secure passages and ship cargo apply at the company's offices, No. 122, Leadenhall-street, London; and 57, High-street Southernee.

BEALBURY COPPER AND SILVER-LEAD MINE,
In shares of £1 each.—(No farther call will be made).

Munaged by a Finance Committee, in whose Names the Moneys are paid into the Bankers.

A LEASE has been OBTAINED of this valuable MINERAL PROPERTY, on liberal tecms. Shares are for disposal on application to the Secretary, who will give certificates for the same, by which the holder is secured his interest in the mine, and entitled to the dividends, without the risk of any liability.

Prospectnase, with reports, may be had at the offices of the company, 4, Charlotte-row, Mansion-house, London.

THOMAS S. BEST, Secretary.

STAFFORDSHIRE COAL MINING COMPANY.

Capital £10,000, in shares of £1 each, to be paid on allotment.

(No further ealt will be made).

BANKERS—Messrs. Rogers, Olding, and Co., Clements-lane.

This COMPANY is FORMED for the purpose of WORKING valuable COAL MINES in STAFFORDSHIRE, proved by pits already sunk. The necessary machinery for commencing the colliery is erected, and, from estimates carefully made by competent parties, will return full 25 per cent. per annum.

Plans, sections, and estimates, may be seen, and prospectuses obtained, at the offices of W. M. Kearns, Esq., solicitor, 5, Ref Lion-square; or at the Company's offices, No. 4, Charlotte-row, Mansion-house, London.

THOMAS S. BEST, Secretary.

DRAKE WALLS MINES COMPANY.—At the Annual General Meeting of the shareholders in this Company, held this day, PETER STAINSBY, Esq., in the chair,

PETER STAINSBY, Eq., in the chair,
The following resolutions were passed manimously:—
Resolved,—That the reports and accounts now read be received, adopted, and entered in the Company's Cost and Transfer Book.—Carried unanimously.
Resolved,—That the best thanks of this meeting are due, and are hereby given, to the Chairman, for his very able management of the affairs of the Company.—Carried unanimously.

Resolved,—That the cordial thanks of this meeting be, and are hereby given, to Mr. P. N. Johnson, for his energetic management of the Company's property.—Carried unanimously.

Resolved,—That to liquidate the balance against the adventurers, it is rethat the Committee make a call of 10s. per share.—Carried unanimously.

TINCROFT MINING COMPANY.—At the Annual General I Me RICHARD HODGSON, Esq., in the chair,

The following resolutions were passed unanimously:—
That the reports and accounts now submitted be received, adopted, and entered in the That the reports and accompany's minute-book.
That the thanks of this r

company's minute-book.

That the thanks of this meeting be presented to the Chairman and Directors, for their judicious, careful, and successful management of the Company's property, as evidenced in the propietious condition of all departments of the mine.

That the thanks of the shareholders are due, and are hereby presented, to Capt. Floyd, for his able and energetic management of the mines, and for his careful attention to the interest of the shareholders.

Salvador House, April 10, 1850.

In the press, and shortly to be published, MINING ADVENTURE: with a DIGEST of the COST-BOOK SYSTEM, STANNARIES, and GENERAL MINING LAWS. By THOMAS BARTLETT.

Subscribers names received at the office of the Mining Journal, 26, Fleet-street.

MONEY VERSUS LIFE: A REVIEW of COLLIERY

the Concealment of Deaths in Mines—the Inaccuracy of Returns by Coroners—the necessity of Government Inspection, more Shafts, and adequate Provision for Worldon and Orphans of the Victims to Explosion, &c.—with the means to provide for the same without unjust taxation;—also showing the Clemency of Government towards the Coalowners of the North. By C. COLWELL, Southwark.—Price 3s, 6d., in cloth and lettered.

Simpkin and Marshall, London.

TO METAL BROKERS.—A YOUNG MAN is desirous of PLACING HIMSELF in the OFFICE of a METAL BROKER, for TWO YEARS, not of the APrenium will be given.—Address "A. B.," at Mrs. Titterton's, stationer, 360rge-yard, Lombard-street.

TO COALOWNERS.—Any COALOWNER or COMPANY desirous of DISPOSING of CANNEL COAL, of good GAS-MAKING QUALITY, nay hear of a prospect of a regular and considerable sale, if price and quality be found ultable—particulars of which, and of the locality of pits, are to be sent to "A. B.," at dessrs. Waterlow and Co.'s, 66, London-wall.

MONEY.—TWENTY-THREE THOUSAND POUNDS are ready to be ADVANCED, either by way of MORTGAGE, at a very low rate of interest, for a term of years, or to be INVESTED in the PURCHASE of SHARES in MINES, situate in England or in Weles, which pay well.

Three thousand pounds of the above belong exclusively, and is the property of Mr. Coward, who will only negociate with principals for the same.

The other twenty thousand pounds are entirely and solely at his disposal, to be invested either by way of mortgage, or in such purchase or purchases as may entirely meet his approval.—Apply by letter, free of postage, to John James Coward, Esq., Lansdownereacent, Bath.—Dated Bath, April 18, 1850.

WANTED, in a Manufacturing Business and Iron Trade, a PARTNER, who can command from £5000 to £8000, and who may be actively engaged or otherwise. The business is well established, and in full operation, yielding good profits, and capable of considerable improvements.—Communications, addressed to "A.R.," 95, Basinghalt-iteret, London, will have prompt attention.

N.B.—None but principals will be treated with.

THE DIRECTORS of the PATENT ALKALI COMPANY are open to RECEIVE TENDERS for MUDIC, containing not less than 30 per at sulphur, and 2 per cent. copper, in any quantity not exceeding 5000 tons, to be livered free on board, or at Liverpool.—Samples (carriage paid), with prices, &c., to be warded to the Company's offices, 1, New Broad-street, London, before the 30th April, 50.

By order, JOHN A. WEST, Secretary.

AIL INSPECTOR.—TO RAILWAY DIRECTORS, ENGINEERS, & IRON MERCHANTS.—The ADVERTISER, in soliciting EMPLOY-MENT in the ABOVE CAPACITY, begs to state, that, for the last 15 years, he has had extensive practice in the Manufacture of Rails, Wheel Tiers, and Morchant Iron; and that reference as to ability and integrity has been permitted by his former employers. DAVID THOMAS, Treforrest, near Cardiar.

TO CAPITALISTS - COBALT AND NICKEL TRADE. —An opportunity now presents itself for any PERSON with CAPITAL to embark in the COBALT and NICKEL TRADE. The concern is now in operation.—For parti-culars apply (by letter) to "U. S. V.," Post-office, Birmingham.

SULPHATE OF BARYTES.—PERSON'S disposed to SUP-PLY the ABOVE ARTICLE in REGULAR QUANTITIES per month, in its natural state, to be delivered free on board at the nearest port, are requested to SEND TERMS, as to quantity and price, addressed to "A. B.," as Messrs. Goode, Browne, and Kingdons, 13, Bedford-row.—The barytes may be delivered stained or discoloured.

MINING SETT WANTED.—A GENTLEMAN, having CAPITAL at his COMMAND, wishes to OBTAIN a GRANT, either in CORNWALL or DEVONSHIRE. Any landed proprietor having property of the above description that is of a promising character, will please to address a letter, stating full particulars, to "A. B.," care of Mr. Plummer, 12, king-street, near Kingsland-road, London.

PARE MATERIALS FOR SALE, BY PRIVATE CONTRACT, at the PROVIDENCE MINES, near ST. IVES.—A 30-inch cylinder PUMPING ENGINE, with BOILER, complete; 9-inch Pumps, Plunger-case, Matching-pieces, Working Barrels, and Windhores.—Apply to Capt. Dunatau, at the mines, or to Mr. Samuel Higgs, Penzance.—April 8, 1850.

MINERAL BLACK.—TWO SETTS TO BE GRANTED to a substantial PROPRIETARY, situate within 9 miles of water carriage, on the RIVER TAMAR, CORNWALL, with unusual facilities for working the same. For samples, and further particulars, apply to Mr. C. L. Radcliffe, solicitor, Plymouth.

BRITISH AND FOREIGN REGISTRY OFFICE PARTIES having MINERAL ESTATES, COLLIERIES, or MINES, FOR SALE, SHARES TO DISPOSE OF, in DIVIDEND MINES, or OTHERS, by onelosing a of the number and price of such shares, and particulars of such property, the same be registered for sale, and commission charged only on sales taking place.—Money anced if required.—Apply to Mr. DURRANT, 58, Lombard-street, London.

MINING OFFICES, 3, GEORGE-YARD, LOMBARDSTREET, LONDON.—Mr. T. P. THOMAS is a BUYER of SHARES in Wheat
Seton, North Pool, South Wheal Frances, Trelawny, Wheal Elizabeth, Own Erfin, Levant, Court Grange, Lisburne Mines, and Santlago; and is a SELLER in Alfred Consols,
Bedford, Penzance Consols, Pendarves Consols, East Gunnis Lake, East Builer, Gustavus
Mines, Stray Park, Tolcarne, Kingsett and Bedford, South Tolgus, Treviskey and Barrior, South Basset, Tincroft, West Wheal Treasury, Wheal Comfort, Wheal Mary Ann,
Wheal Margaret, and South Trelawny.
T. P. THOMAS is generally in a position to BUY and SELL at close MARKET
PRICES, and will be happy to afford information npon application.
N.B.—MINES INSPECTED.

MINING PROPERTY.—Mr. HERRON has SHARES in the best DIVIDEND MINES FOR SALE, and which will give to the purchaser if to 25 per cent. for the outlay; amongst others are the following:—Treviakey and Barrier, Wheal Trelawny, Temanyne, Tincroft, East Wheal Rose, Great Devon Consols, West Frovidence, West Caradon, United Mines, Wheal Margaret, Condurrow, Carn Brea, was Treasury, Bedford, Mary Ann, South Tolgus, North Pool, and Santiago Mines.—Minlag Offices, 33, Clements-lane, Lombard-street.

MR. T. A. READWIN, MINING OFFICES, winchester-buildings, old Broad-street, London.

MR. R. TRIPP, MINING AND SHARE OFFICE, ST. MICHAEUS CHAMBERS, ST. MICHAEUS-ALLEY, CORNHILL, LONDON.

MR. C. S. RICHARDSON, CIVIL ENGINEER, LAND
AND MINING SURVEYOR.
No. 15, OLD BROAD-STREET, LONDON.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STRBET, LONDON.

BODMIN CONSOLS, WHEAL BRAY, ASHBURTON UNITED, and WHIDDON.—The LONDON OFFICES for those MINES are at WM. MURRAY, Secretary.

RAST BIRCH TOR TIN MINING COMPANY.—Notice is hereby given, that a SPECIAL GENERAL MEETING of the shareholders in the above Company will be HELD at 2, Winchester-buildings, on Tuesday, the 23d inst., at Two o'clock precisely, for the purpose of taking into consideration the report of Capt. Carthew as to the future working of the mine.

T. A. READWIN, Secretary.

QUADALCANAL SILVER MINING ASSOCIATION.— The attention of the shareholders is particularly requested to the FIFTH and LAST PAYMENT of TEM SHILLINGS per share on the NEW SHARES, which will fall due on the 1st of May next. The Directors also think it right to announce their intention of enforcing the penalty of forfeiture against all such shares in respect of any call or calls upon which due payment shall not have been made at that date.

34, Broad-street-buildings, April 10, 1850. By order, H. T. RYDE, Sec.

MPERIAL BRAZILIAN MINING ASSOCIATION, Winchester House, old Broad-street.—Notice is hereby given, that the HALF-YEARLY
GENERAL MEETING of the proprietors of shares in this Association will be HELD at
the London Tavern, Bishopsgate-street, on Thursday, the 9th of May, at Two volcok precisely.—Notice is hereby also eiten, that at this meeting the ELECTION will take place
of three Directors, in the room of Joshua Walker, John Brightman, and George Thomas,
Eage, and of one auditor, in the room of Abraham John Valpy, Esq., who go out of office
of rotation, but who, being eligible, effer themselves for re-election.
London, April 16, 1830.

GEORGE THOMAS, Acting Director.
N.B.—The auditors' statement may be seen at the office three days before the above
meeting.

LYNVI IRON COMPANY.—Notice is hereby given, that a GENERAL MEETING of the shareholders of this Company will be HELD at heir offices, 15, 0id Jewry Chambers, on Wednesday, the 24th inst., at One o'clock pre-lasily.

By order of the beard,

F. W. GIBBON, Secretary. isely. London, April 15, 1850.

MEXICAN COMPANY.—The Directors hereby give Notice,
that the ANNUAL GENERAL MEETING of proprietors in this Company will
be HELD at the office of the Company on Thursday, the 3d of May next, at One o'clock
precisely, in conformity with the Deed of Constitution of the Company,
32, Great Winchester-street, April 18, 1850.

J. M. MAUDE, Secretary.

NEW PRESSURE INDICATOR.—Mr. J. S. Fraser, engineer on the Great Western Railway, has furnished to the Royal Scottish Society of Arts a description of a pressure-indicator for locomotives and other steam-engines, of his invention. The principle, or law, on which the action of this indicator depends was first made known through the experiments of M. Clement Desornes, "who showed that when steam, under high pressure, is allowed to escape from an erider, plerced in a plate, and a flat disc is brought close to this plate, the plate and disc are made to adhere together." That this priciple, with a lever of the first order connected by a link to the disc, the disc resting on a plate, having a small hole through it, and the short pipe (screwed at the end, for the purpose of fixing to the top of guage glass or other part requiring to be tested), along with a weight or spring balance, complete the instrument. The author stated that it would be obvious that the piston indicators and manometers are open to many objections; the first, from friction and unequal expansion, never works freely, and the last, requiring a correction for the temperature of the air, is not such as can be of practical use. That all safety valves on steam-boilers should be tested, as great error's exist in this, and nearly always this error is in excess of pressure; and to detect "wise-drawing," or a less pressure in the cylinders than in the boiler, &c., such an instrument should be used in preference to one liable to stick at any point, and give doubtful, if not incorrect, results.

Paxing Dividends out of Capital—Carlyle v. The South-Eastern

cylinders than in the boiler, &c., such an instrument should be used in preference to one liable to stick at any point, and give doubtful, if not incorrect, results.

PAYING DIVIDENDS OUT OF CAPITAL—CARLYLE v. THE SOUTH-EASTERN BAILWAY COMPANY.—This case, which has been twice previously before the court, came on again for hearing on Wednesday last. The plaintiff for himself and others 201. shareholders in the Ashford and Hastings line, applied to restrain the directors, secretary, and bankers of the company, from paying any dividend upon shares; there had been a dividend declared in March last contrary to Act of Parliament, which was payable in April, unless restrained by an injunction. The Hastings line had been transferred to the South-Eastern Company from the London and Brighton, and the 42 section of the Act, authorising such transfer, declared that if the line was not completed in three years, no dividend should be paid until such line was open to the public, unless authorised by Parliament to do so. The injunction was granted by Lord Langdale, the directors being allowed time to file affidavits that they were in a condition to meet all demands upon them in respect of completing the line in three years, by the end of next August. These affidavits having been read, Mr. Turner and Mr. Bovill supported the injunction; a supplemental affidavit of the plaintiff was read, contending that there was every reason to infer that the line could not possibly be finished within the time. Mr. Palmer was heard in reply, and showed that while the whole coat of the branch up to its completion in August next, was computed at 184,000L, the directors had 238,250L to meet all demands. Lord Langdale, in giving judgment, said upon the statements made it was suggested whether the strictness of the rule laid down by the Act of Parliament, as to the non-payment of dividends might not be relaxed by the discretion of the court. The information, however, afforded by defendants, did not appear satisfactory, and a new affidavit by plaint

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THE SILENT FRIEND: a medical work, on the infirmitie

THE SILENT FRIEND: a medical work, on the infirmities and decay of the generative systems, from excessive indulgence, infection, and the inordinate use of mercury, with remarks on marriage, and the means of obviating certain disqualifications, illustrated by 26 coloured engravings. By R. & L. PERRY & Co., coasulting aurgeous, 19, Berners-street, Oxford-street, London. Published by the authors; sold by Strange, 21, Paternoster-row; Hannay, 63, and Sanger, 160, Oxford-street; Starie, 23, Titchborne-street, Haymarkee; and Gordon 146, Leadenhall-street.

Par THE First treats of the anatomy and physiology of the reproductive organs, and is illustrated by dix coloured engravings.—Par THE SECOND treats of the consequences resulting from excessive indulgence, and their lamentable effects on the system, producing mental and bodily weakness, nervous excitement, and generative incapacity; it is illustrated by three explanatory engravings.—Par THE THE THE treats of the diseases resulting from infection, either in the primary or secondary form, and contains explict directions for their treatment. This section is illustrated by 17 coloured engravings.—Par THE FUTH is devoted to the consideration of marriage and its duties. The causes of unproductive unions are also considered, and the whole subject critically and philosophically inquired into.

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BE SAMUEL LA'MERT, M.D., 37, Benrons-Seques, and functions, and the injuries that are produced in them by solitary habits, excesses, and infection.

The author of this singular and telented work is a logally qualified medical man, who has evidently had considerable experience in the treatment of the various disorders arising from the follows and for the surface of the consequences of excesses, which must act as a salutary warning to youth and maturity, and by its persual, many questions may be satisfactorily replied to, that admit of no appeal, even to the most confidential friend."—Bra.

'Unquestionably this is a most extraordinary and skilful work, and ought to be extensively circulated; for it is quite evident that there are poculiar habits acquired at public schools and private seminaries, which are totally unknown to and conceded from the conductors of those establishments, and which cannot be too strongly reprobated and condument. The engravings that accompany the work are clear and

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MANHOOD: the CAUSES of its PREMATURE DECLINE,

with pisin directions for its perfect restoration. A Medical Essay on those diseases of the Generative Organs, emanating from sedentary habits, indiscriminate excesses, the effects of climate, and infection, &c., addressed to the sufferer in youth, manhood, and old age, with practical remarks on marriage, the treatment and enter of nervous and mental debility, syphilis, and other urino-genital diseases, by which even the most shattered constitution may be restored, and reach the full period of life allotted to man. The whole illustrated with numerous anatomical engravings on steel, in colour, explaining the various functions, secretions, and structures of the reproductive organs in health and disease, with instructions for private correspondence, cases, &c.—By J. L. CURITS, aurgeon, its Albermark-e-treet, Piccadilly, London.

"Mushood.—We feel no hesitation in asying, that there is no member of society by whom the book will not be found nateful—whether such person hold the relation of a parent, preceptor, or a clergyman."—Sus, Evening Paper.

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"Curitis, On Manhood.—Fortmate for a country would it be did its youth put into practice the philauthropic and scientific meaning have at its the enstripment of the false delicacy which has acreened them; and that scientific men have interposed of the false delicacy which has acreened them; and that scientific men have interposed to reacce meany of their votacies from a premature grave. The views of the writer are excelle ON NERVOUS DEBILITY AND GENERATIVE DISEASES.

ed the 49th thousand, an improved edition, 120 pages, price 2s., in a scale

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機関の	MERTINGS DURING THE ENSUING WEEK.
Tam DAY	-Asiatic -5, New Buritagten-street
MONDAY	Geographical-3, Waterlee-place 7 P.M.
THE JOHN !	Statistical-12, St. James's-square 3 P.M.
The state of the s	British Architects-16, Grosvenor-street 8 P.M.
	Medical -3. Bolt-court, Fleet-street 8 P.M.
TUESDAY	. Medical and Chirurgical -53, Berners-street 8g P.M.
	Civil Engineers -25, Great George-street 8 P.M.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Zoological-11, Hanover-aquare 2 P.M.
125 1	Antiquaries-Semerset-house 8 P.W.
V 2 V E / 2	Syro-Egyptian 71, Mortimer-street, Cave.idish-square 71 P.M.
WEDNESDAY	Society of Arts Adelphi 8 P.M.
	Geological-Somerset House 81 P.M.
THE BADAY	. Royal Someract-house 8 P.M.
	Lendon Institution-Pinsbury-circus 7 P.M.
	Royal Society of Literature -4, St. Martin's-place 4 P.M.
Marian Sun	Numismatic -41. Tavistock-street. Covent-garden 3 P.M.
FRIDAY	
	Philological-London Library, 12, St. James's square 8 P.M.
SATURDAY	Royal Botanic Inner Circle, Regent's Park 3f P.M.
The state of the s	Westminster Medical-17, Saville-row 8 P.M.
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ROYAL INSTITUTION.—APRIL 18.

Professor Amstruc commenced a course of lectures "On Practical Geology." The lecture, which was purely introductory in its character, presented an outline of those geological facts which had been determined, and would form the foundation of the lectures which are to follow. He proposed to consider the earth's crust in two points of view—flrst, with regard to what was put upon it; and, secondly, with regard to what could be obtained from it. The one view was that taken by ongineers and architects; the other, by miners, agriculturists, and others. A geological acquaintance with the rocks from which his soils were derived, enabled the agriculturist to deold upon the possibility of draining cheaply and effectually; and by that alone could the architect and engineer determine where they could procure the best materials for the works they designed, and the proper localities to insure soundness and dryness for their foundations. This knowledge also guided the miners at to the places where he would be likely to obtain valuable minersly, and instructed him as to the mode of getting them safely, and without danger of the roof of the mine faling in. The learned professor then proceeded to describe the earth's crust, in relation to its mechanical condition, its chemical construction, and its mechanical position—three points which included all that it was necessary for the practical man to know. He defined the word "rock"—a term used rather indefinitively—to mean, geologically, any considerable mass of the earth's crust presenting the same conditions. The mechanical condition of a rook involved its hardness or softness, its toughness or brittleness, its permeability, or impermeability, all qualities which must be considered in relation to the things—as, for instance, chalk was hard as compared with finst. A knowledge of texture was of great use, as in the mending of a road the material used might be sufficiently hard, but it might be, at the same time, brittle; and then it would soon be reduced

The lecture was illustrated by a clever series of drawings and diagrams, and upon the table was a small collection of geological specimens.

GEOLOGIGAL SOCIETY.

APAR 10—Sir Charles Lyrel (President) in the chair.

William Murray, Esq., was elected a fellow. The following communication was read:—"Observations on the Discovery, by Prof. Lepsins, of sculptured marks on rocks in the Nile Valley in Nabia, indicating that within the historical period the river flowed at a higher level than in modern times." By Leonard Horner, Esq. The author having given Professor Lepsins' account of the position and character of certain hieroglyphics, registering the heights of the river floods, sculptured in the time of Amenemba III. (Moris), about 2290 years B.C., on the face of the foundation rock and the masonry of two fortresses, which were built by Sesuatesen, predecessor of Moris, on the banks of the Nile at Semne, in Nubla; and having referred to the hypothesis proposed by Prof. Lepsins, in explanation of the great difference (26 feet 8 inches English) apparent between the highest ancient level of the water of the Nile, as indicated by the uppermost of the markings, and the highest level of the water during the inundations of the present day—viz.: that the bed of the Nile, in Nubia, has been excavated to a dapth of 27 feet during the last 4000 years—proceeded to enquire into the physical and geological features of the Nile Valley in Nubia, noticing the power of the stream and the hardness of its bed, including the volume and velocity of the river, and the lithological characters of the rocks over which it passes.

After a lengthened consideration of these important conditions, the author arrived at the conclusion that any wearing away of the bed of the channel, north of Semne, the site of these ancient Nilometric markings, could not have taken place within the historical period. The only hypothesis that, in the author's opinion, could meet the requirements of the facts observed, would be either the wearing away of a reef or barrier at the place in question—a process requiring too long a period; or the existence, at some distant period, of a dam or barrier, forme

INSTITUTION OF CIVIL ENGINEERS.

APRIL 16.—WILLIAM CONFTP, Esq. (President), in the Chair.

The discussion upon Mr. Chubb's paper "On Locks and Keys," was renewed, and extended to such a length as to preclude the reading of any paper.

And extended to such a length as to preclade the reading of any paper.

Several locks, which had not been previously mentioned, were exhibited, and their peculiarities of construction were described. These bore the names of their inventors—Davis, Parsons, Williams, and Nettlefold.

It was urged, that the curtain which had been mentioned might be essential for Summerford's lock, but could not be, in any degree, useful in Chubb's lock; in fact, that its only effect would be to induce complication, and augment the cost, without increasing the security. Among numerous instances of ingenious devices for opening locks, that stated to have been tried in America excited much attention. The process was described to be, that the operator, after inserting two pieces of india rubber, to limit the sphere of action, injected from a force-pump a composition of glue and molasses, in a heated state, which chilled quickly, and although extremely elastic, had the property of retaining the form and position of the lower side, or belies of the tamblers; and that, after being cut cut of the lock by a thin-bladed instrument, a key could be made from the impression. In explanation of this, however, it was shown, that in Chubb's lock there existed no similarity between the position of the belies of the tumblers, when at rest, and the figure of the bit of the key; and, therefore, that even appoaing it to be possible to obtain an accurate impression of the position of the combination, or any assistance be given for making a false key. In further confirmation of this, a lock by Chubb was shown, in which, when at rest, the bellies of the tumblers were perfectly uniform, and in the same plane, see that an impression of the index of the colock must be utterly useless for any purpose. Although it was asserted that Chubb's locks had

been picked, it was admitted that, it had never been proved that those locke had really been made by the inventor; but, on the other hand, it had frequently been shown that spurious imitations of the first expired patent had been sold in large quantities, and had been marked "Chubb's Patent," until the makers were stopped by legal process, when it was ruled, both at law and equity, that although after the expiration of a patent any person might manufacture the article, he had no right to pirate a peculiar trade mast, or to use a distinctive stamp, which was irrespective of any patent right.

The locks used at Pentonville Prison were instanced as uniting goodness and safety with extreme cheapness—but it was admitted that the workmanship was very inferior to that of Chubb's locks.

It was also asserted that Dayis's locks, invariably used on the cabinet despatch-boxes, which frequently contained important secret papers, were never found to be out of order, or to be susceptible of being picked.

To this it was replied, that Mr. Chubb was prepared to produce a workman, who, without having ever previously seen the locks on the cabinet despatch-boxes, would open any number, on being allowed half an hour for each; and that the same might be done more easily with the Pentonville Prison locks. In summing up the discussion, it was stated to be the duty of the Institution to express the conviction of a veritable Chubb's lock never having been picked, either in Great Britain or on the other side of the Atlantic, that it did, in fact, combine that strength, simplicity, and security, without which the most ingenious locks were utterly useless; that it possessed the marit, in the production, of never, through fear of competition, having reduced the quality of the workmen employed in the manufacture, the men had been taught to be as jealous of their master's reputation for good work as he could be of it himself, and that thus the merited reputation of the work had been, and was still, maintained.

The meeting was adjourned unti

LITERARY NOTICES.

ractical Observations and Researches on Vestilation and Disinfection, inclusive of other essential Provisions, connected with Sanitary Regulations and the Health of Yowns. By John Muerax, Ph. D., M.A., F.S.A., F.L.S., F.G.S. London: Whittaker and Co., Ave Maria-lane.

Health of Towns. By John Murray—hany of whose valuable suggestions on sanitary control of the co

The Colonies of Great Britain, their Government and Progress. London: Mining Journal Office, 26, Fleet-street.

The Colonies of Great Britain, their Government and Progress. London: Mining Journal Office, 26, Fleet-street.

That the means adopted for the good government of the vast colonial possessions of Great Britain is of the very atmost importance to the well-being of the State itself, there can, we think, be none who will deny; but there is in many quarters, and in the spirit of many public writers, a tendency abroad to depreciate every attempt on the part of a Ministry to support a Realthy and permanent system of government, to misinterpret their acts with regard to their colonial government, and misropreson them as despoilers and oncemies, while their every endeavour has been to benefit and improve the condition of the inhabitants. A small pamphiet of fifth interesting subject has just been published at our office, dedicated to Sir Win. Molesworth, Bart, M.P., by "One of the Out-of-Door People of England," who, the author states, as a body, doubt the accuracy of his promises, and deny the justness of his reasonings on the subject under consideration. The author endoavours to show that, in our colonial possessions, there exists such an amount of sound and antifactory government—such a sum of material wealth and comfort realised, and in course of realisation, as is utterly incompatible with any thing short of good government. He first dwells upon the fact that these colonies, whose administration has been so searched into and inquisitorially sifted, are scattered up and down all the parallels north and south, all the meridians east and west, of the habitable globe: they contain a population far more various than the zones throughout which they are distributed; every variety of the genus home, with their habits, instincts, traditions, laws, and religions, into which they lastic hand of Government is to intust the principles of unity and subordination. The measured superficies of these lands amount to about six millions of equaremiles, with a population of nine millions—a colonial dominion comparable to which His-tory

The Key to Rasinou Investments.—Part II.—The London and Brighton Railway, illustrated by a Map of the District. By John Whiterread, of the Stock Exchange. London: John Weale, High Holborn.

In last week's Mining Journal, we noticed the first pamphlet of a series intended to be published, giving a clear insight into the financial position and future traffic prospect of all the principal railways in the kingdom, and thus enabling parties desirous of investing in this species of property, to form a somewhat correct notion of their relative value. The second pamphlet, now before us, treats on,the London and Brighton line, occupying a most important position, extending in an almost direct line from London to Brighton, and along the south coast from Brighton to Portsmonth on the west, and to Hastings on the east. Mr. Whitehead, from a due consideration of all circumstances, comes to the conclusion that, except with the London and Hastings traffie, which will now shortly be completed for by the South-Eastern Company, the Brighton Company's prospects may be regarded as of an assuring character; and that as Brighton improves, which it will every year, this company warrage profit in 1849 was 9884, per week, or 800/per cent. above what the claims of the loan creditors amount to.

PROPOSED NEW DESCRIPTION OF RAILWAY.—Mr. E. E. Merrall, C.E., of Camberwell, in a letter to the Railway Times, suggests the construction of a railway between London and Liverpool, on a novel and gigantic scale, which puts all our present practical details of railway travelling entirely in the shade, and even the broad gauge is but a pigmy to his proposition. His plan is to construct a single line of railway from London to Liverpool withs 20 ft. gauge, without turnings, sidings, or crossings, except at the two termies, and a passing place in the centre, and no curve to be of less than four miles radius. The rails are to be of suitable thickness, laid upon transverse and longitudinal sleepers, on which only one carriage is to travel at one time; this carriage is to be 200 feet long, 25 feet wide, and 15 feet high, on ten wheels, two in the centre, and four at each end; the lower part, between the wheels, two in the centre, and four at each end; the lower part, between the wheels, two in the centre, and four at each end; the lower part, between the wheels, two in the centre, and four at each end; the lower part, between the stade of which a liberal quantity is to be allowed each passenger. The upper part of the carriage to contain a lobby, at about the middle, from which a door leads into a grand saloon, fitted up with all possible elegance, similar to the state room of a ship, with a staircase leading to the roof, which is to be a grand promenade, with a light, but strong, railing round it, 5 feet high, resembling the deek of a large steam-ship; on the other side of the lobby is to be a refreshment room, where refreshments of all kinds are to be supplied at moderate rates, with a small office parted off, where a ticket clerk takes money, instead of at the stations. Next is a fadies room, fitted up with similar elegance to the saloon, and beyond this another large apartment, with benches and tables, for the lower class fares. This mammoth vehicle is to be propelled by a locomotive of corresponding power, capable o

Original Correspondence.

DELAYS IN THE ENGLISH COURT OF CHANCERY-No. II.

PARTIES TO THE SUIT, DEMURRERS, &c.

Sir,—In my former letter (Mining Journal, April 6), it was shown that equity suitors can be with great facility introduced into that mundane Elysium—the Master's Office; and

"Oh, if there be an Elysium on earth, It is this—it is this—it is this."

With it this—it is this—it is this.

But it being hoped that amongst your numerous and influential readers there are some so fortunate as to be unacquainted with the "Citadel of the Court of Chancery," I cite the following description given of it (20 years ago) by an experienced legist (Mr. Jacob):—"Of all the foul appendages to a court of justice that craft and cupidity ever invented, the "Master's Office' is one of the most flagrant, for it combines within itself nearly every noxious quality that in the nature of things could be incident to a court of justice. Its meetings are secret; its officers are paid in proportion to the badness of their work, and the delay they can create; its sittings are broken up into little fragments of time, called hours, so that whatever stage of discussion the matter then before the Master may have reached, it is necessarily adjourned without any regard to the ends of justice, the situation of the suitors, or the convenience of the parties whose attendance is requisite."—Leg. Exa., p. 346. Such was the Master's Office 20 years ago, and such, with little exception, it is still; for through the kindness of a judicious defendant—i.e., a gentleman, who, being anxious to uphold the characteristic practice of the court, will not answer prematurely—a plaintiff may even now become familiarised with the bureau of that great interlocutory functionary, "the Master," long before an answer has been obtained even to an original bill; for be it borne in mind that, in addition to original bills, wherein the plaintiff merely prays a decree touching some right withheld by the defendant, there are also a variety of other bills—as bills of interpleader, bills of certiorari, bills to perpetuate testimony, bills of discovery, bills of quia timet, bills of peace, and cross bills. There are likewise "further and other bills," but their titles need not be here enumerated, as they will come within my remarks on "parties," which important feature in Chancery pleadings will forthwith be noticed.

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mot be here enumerated, as they will come within my remarks on "parties," which important feature in Chancery pleadings will forthwith be noticed. The leading rule relative to "parties," is that all "persons interested in the demand, or who may be affected by the relief prayed, ought to be parties to the suit, however numerous they may be; "but "the judicial expositions of this rule (as Dr. Woodeson truly remarks) are very numerous."—View of the Laws of England, v. iii, p. 370; and it may be added that the conflicting opinions which still exist on this point frequently cause both delay and expense. Lord Chancellor Hardwick says—"The general rule is, that if you draw the jurisdiction out of a court of law, you must have all persons parties before the court, who will be necessary to make the determination complete."—Poore v. Clarke, 2 Ath., 515. Lord Thurlow says—"All parties having an apparent right must be brought into court before the court will do anything which may affect their right."—I Vex., 29. Sir William Grant says—"As far as it is possible, the court endeavours to make a complete decree that shall embrace the whole subject, and determine upon the rights of all parties interested."—Pall v. Lord Clinton, 12 Ves., 58. And Lord Eldon says—"The strict rule is, that all persons materially interested in the subject of the sait, however numerous, ought to be parties."—Cockburn v. Thompson, 16 Ves., p. 325.

These various authorities show the vague language in which the rule has been laid down from time to time by celebrated judges; and in noticing its indefinite character, an able writer observes, that "the object at which judges have aimed in giving their judgments has been to lay down the rule with sufficient accuracy for the case immediately before them, but they have not attempted to pronounce a general rule."—Calvert on Parties to Swits in Equity, p. 5.

Seits in Equity, p. 5.
Viewed theoretically, the rule savours of justice, but it cannot be denied
that its practical operation, doubtless caused by its judicial fluctuation, has
frequently proved detrimental to the interests of suitors; for if, in attempting to carry out the strict rule, too many persons or matters should be included in the pleadings, the bill may be demurred to for multifariousness and if too few be included, it may be demurred to for want of parties. See 1 Ath., 291, 3 P. Wms., p. 331; and Salomans v. Laing, Rolls Court, Jan. 12, 1850, S. C. The Jurist, Vol. xiv., p. 279, so that

and if too few be included, it may be assured to Jor want of parties. See 1 Ath., 291, 3 P. Wins., p. 331; and Salomans v. Laing. Rolls Court, Jan. 12, 1850, S. C. The Jurist, Vol. xiv., p. 279, so that

"Incidit in Seplam, qui valt vitare Charybdim."

or, as that popular classic. Mr. Punch, would say—" Between two stools, the suit falls to the ground."

Notwithstanding that the bill may have passed the ordeal of demurrer, there are other causes of delay and expense incidental to a Chancery suit. According to the established practice a plaintiff is only allowed to amend his original bill within certain limits of time and subject matter; and even this liberty is very circumscribed, for all imperfections which arise in a suit during its progress are incapable of being remedied by amendment. (See Jones v. Jones, 3d Ath., 217). And if any event happen subsequently to the filing of an original bill, which gives a new interest in the matter in tail; or if any event happen which occasions any alteration in the interest of any of the parties to the suit; or if any of the parties die, another bill must be filed, which is termed "a supplemental bill." and here it is, mark, worthy the great facilities afforded of adding to the prolixity of the pleadings, for even where the plaintiff has been ordered to amend his bill, and he has thought proper to file a "supplemental bill," it has been held justifiable, as appears from the case of Greenwood v. Atkinson. In this case, although the great Edward Sugden himself (he being of counsel in the cause) argued for the strict adherence to the rule laid down by Lord Reddesdale—viz, "sha wherever the same end may be obtained by amendment, a supplemental bill should not be filed;" yet the Vice-Chancellor over-ruled the objection, observing—"Nothing is more usual than to file a supplemental bill, for the purpose of bringing a new party before the Court.—See 5 Simon's Chancery Reports, p. 422.†

And White on Supplement and Revivor. Thus fruitful causes of delay are afforded by births, marr

ample time is afforded by the ordinary period over which a Chancery suit usually extends.‡

These are a few of the evils emanating from the present equity system —evils which still remain unredressed, although frequently denounced in Parliament; and it is but just to state that by none of our legislators have those evils been more frequently or more fully denounced than by one of our most eminent equity judges, the present Master of the Rolls, Lord Langdale, with whose remarks on the subject I will conclude this letter:

—"Delay (says this eloquent senator and upright judge) begets delay. In the course of time supplemental facts arise, parties die, or change their relative situations—new parties interested in the property come into existence—interests devolve or are transmitted—and various dealings with the property take place. Every event may, and often does, become a source of fresh litigation, and fresh delay. Bills of revivor and supplement, and repeated interlocutory applications are the consequence, and in their turn become the causes of additional delay and increased expense. The delay, united with its attendant expense, tends to shut the door of justice. The man whose violated rights require the aid of the law, and who ought to find redress in its courts, is deterred by the delay and expense.

find redress in its courts, is deterred by the delay and expense.

"The wrong-doer sits in tranquility and triumph; pay more, the same state of things which discourages bona fide litigation, encourages mala fide litigation, and invites a wrong-doer himself into court. He comes with a fictitions complaint, not to establish a right, but to extort submission to wrong, and to secure to himself the fruit of his own iniquity. There are

"The principal ends of a demurrer (says Mitford) are to avoid a discovery which may be prejudicial to a defendant, or to cover a defective title, &c., Mitf. Equ. Plead. p. 100."

cases in which the injured party will submit to oppression, or a compromise of his rights, rather than expose himself to litigation, which he knows will be attended by great delay, and consequent anxiety and expense."

Here, Sir, we have presented to us a portraiture, drawn by a fearless, but faithful and experienced hand, of the position of that portion of Her Majesty's subjects, who may unhapily be suitors in the Court of Chancery, that Magna Aula Justitiæ, in England. And is it surprising, Sir, that the people of this, as well as the people of the sister country, should uplift their voices in reprobation of a system, many memorials of which are to be found in the histories of "the paupers it hath made, and the hearts it hath broken?" In my next I will touch on the results of "The Reference to the Master," and "The Master's Office."

April 16.

A VOICE FROM LINCOLN'S INN.

A VOICE FROM LINCOLN'S INN. April 16. [For continuation of " Original Correspondence," see page 189.]

Mr. Robert Stephenson, M.P., was, on Thursday evening last, elected a Felow of the Royal Society.

It is tated that the submarine telegraph between Dover and Calais is to be opened to the further the submarine required to the purpose. The instrument submarine the submarine required to the submarine submarine

White's Hydro-Carbon Gas.—In the Mining Journal of 14th July last, we noticed that, among other places where Mr. White was about erecting his patent gas apparatus, the new township of Southport, near Liverpool, would be shortly lit with it. The arrangements were completed, we believe, in Nov. last; since which it has been in operation, both public and private, very much to the astisfaction of the commissioners of Southport, and every individual employing it. It appears to possess in a high degree all the valuable properties attributed to it by the patentes—perfect freedom from sulphuretted hydrogen, or ammonia; no possible escape of unconsumed carbon, or smoke; ceilings of rooms where it is used thus remaining perfectly white, and gilt or metal ornaments, or frames, remaining free from tarnish. In whiteness and brilliancy, the light is from 20 to 27 per cent. superior to the generality of coal gas; while from the value of the residual products for the production of naphtha, oil, &c., it is stated that, on a moderately large scale, this gas can be put into the gasholder free of cost; 2000 ft. are commonly produced from 1 cwt. of resin; but by working up the residuum, 3500 to 4000 ft. can be generated. It is, however, stated that the former is the most economic method, by preserving the remains for the production of oil and naphths. The wear and tear of the retorts, from the low heat required, is only one-third of coal gas retorts; and, in case of resin becoming dear, there are numerous plentiful hydro-carbons which can be employed with equal effect under the patent.

Consumption of Fuel.—Mr. C. Burckhardt, of Cincinnati, has patented some improvements in the consumption of fuel in steam-boilers and other furnaces, which consist in applying decomposed steam, at a high temperature, to the products of combustion above the coal or other fuel, together with a due proportion of atmospheric air, the whole of which commingle, and by which all the combustible matter in the fuel is consumed. The inventor claims "the employment, arrangement, and combination of apparatus, constructed substantially as described, for consuming the gases arising from ignited fuel, by the introduction of decomposed steam, or the gases resulting therefrom, and atmospheric air in a highly heated state, over the fire. I also claim the revolving grate, constructed and operating as described."

grate, constructed and operating as described."

New Planing Machine.—Mr. W. E. Newton, of Chancery-lane, has just taken out a patent for some improvements in machinery for planing, tongueing, and grooving boards and planks, which he describes as an improved planing machine, consisting of a framework, in the lower part whereof are fitted, at the fore end and at about the centre, two carrier wheels, around which passes an endless band, composed of metal plates hinged together, and fluted on their exterior surfaces. A similar arrangement of wheels and band is placed above the first, and the whole driven by bands and toothed gearing from any prime mover. The plank to be operated upon is introduced between the fluted surfaces of the two bands, and thereby securely held and forced under the planes. The top system of wheels and band is supported in a self-adjustable frame, connected by rods to the frame carrying the planing irons. The planes, eight in number, are adjusted at different angles to the plank, by means of screws, and in front of each plane is a bar, which is made to press upon the plank by means of a spring, and yet yield to any inequalities in its surface. The tongueing and grooving irons are supported in the rear end of the framework, on either side of the plank; and the plank is forced between them by the continued movement of the endless bands. Both sides of the plank may be planed at the same time, by placing a second set of planes beyond the first, with their cutting edges uppermost.

at the same time, by placing a second set of planes beyond the first, with their cutting edges uppermost.

RAILWAY IMPROVEMENTS.—Mr. T. C. Gregory, C.E., has invented a self-acting apparatus for disconnecting the carriages from the tender, upon the engine leaving the rails—the object of which is to cause the engine, by the mere motion of quitting the rails, to disengage the carriages without any shock, and leave them in safety behind. This is effected by means of a lever running below the engine and tender along the centre, having one end fixed at the front of the engine, and the fulcrum at the fore part of the tender. This lever acts on a box placed at the back of the tender, to which the carriages are attached. The lever is a strong bar of T iron, hung from the fore part of the engine by an iron rod, which has a rounded nut attached, on which the lever may turn easily when it changes its direction on coming on to a curve. There is a provision made for the separation of the engine and the tender, and for the play between them. At the fulcrum, and at necessary parts, the lover is supported by iron stays. The box, which is of cast-iron, is fixed firmly in a space cut out of the back board of the tender, and is kept in position by a strong vertical iron bar. It has a strong iron rim, with an opening at one part of sufficient width to allow of the carriage hook falling out, when required to do so, without tension. There is a spring within, having one end fixed firmly on the vertical iron bar, which is immoveable, and the other end fixed in the side of the box. In order to charge the instrument, the box must be turned in opposition to the spring till a protuberance on the side rests against the end of the lever, and the latter being made a rigid body by connecting the engine and tender, the box is kept in position. The carriage hook is then attached, and the engine starts with its train. As long as the engine keeps the rails on a straight line, or on a certain amount of curve, to be hereafter mentioned, the box ret has been calculated that a single lever will produce the nicety of action that is desirable only to the extent of a half-mile radius curve, and this has been adopted as an extreme, so as to simplify the explanation, and show the principle as clearly as possible; but by reducing the length of the back arm, and substituting a short lever of certain proportions, nearly the same degree of nicety may be produced, taking a quarter-mile radius curve for the extreme. This is perhaps the sharpest used on main lines of railway, and when they do occur, the train goes so slowly, that there is no fear of any accident. There are sharper curves leading into engine sheds and stations, but as there is no necessity of the apparatus being used then, the carriage may be attached to a loop fixed in a buffer frame. It has been calculated that on a half-mile radius curve the front of the wheels must be 2 inches off the rail; on a mile curve only three-fourths of an inch off, and on a straighter line still half an inch on the rail to start the machine. Before the engine attains this distance of 2 in, there is little fear of the tender wheels being off the rails, for it is neither more nor less than a circumstance that occurs every day in the case of an engine and tender passing on to a curve, when the fore part of the engine is on the curve and the tender on the straight. If the tender were to come off instead of the engine, the apparatus is expected to act. There can be little fear of the box being released by any lateral motion of the engine; for, when on a straight line, the end of the fore-arm must be 2½ inches to the one side or the other ere the apparatus will work. This can never be without the engine leaving the rails. While on a curve, the engine goes very steadily on account of the pressure on the outer rail, and the tendency is to diminish the angle made; and if it were to slip down to the lower rail, a sufficient allowance is made in the calculation.

Lord Langdale's speech in the House of Lords, in the year 1836.

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

THIS DAY ... Kinsightal Mining Company—offices, at One.

Claridge's Patent Apphalte of Sessel Company—offices, Trossbay ... East Birch Tor Mining Company—offices, at Two. Weddays ... Layral Iron Company—offices, at One.

THURSDAY ... Deep River Mining Company—offices, at Two. Western Gas-Light Company—offices, at Two. Western Gas-Light Company—offices, at Two. Great Western Kallway—Paddington Station, at Twelve. Great Western Kallway—Paddington Station, at Twelve. Galvanised. Iron Company—dodington Station, at Twelve. Asylum Lish Assurance Company—offices, at Two. FEIDAY Bilanaron Iron and Coal Company—offices, at Two.

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[The meetings of Mining Companies are insert

IONIAN BANK.

An extraordinary general meeting of this company was held at the Bank, in Great Winchester-street, City, on Thursday, the 18th inst., for the purpose of electing a director, in the room of Col. Sir Frederick Hankey, G.C.M.G., retired.

OLIVER FARRER, Esq., in the chair.

Mr. KETTLEWELL (the secretary) read the advertisement.

The CHARMAN said, as so few of the proprietors were present on the occasion, he took it as a mark of the confidence they had in the directors. It would be seen, by the advertisement, that the sole object of the meeting was to elect a director in the room of Col. Sir Frederick Hankey, who had retired. The only candidate who now presented himself for the vacancy was J. Ranking, Esq. The CHARMAN then moved, that John Ranking, Esq., be elected a director of the Ionian Bank.—Mr. MARSHALL (a proprietor) seconded the motion, which was passed unanimously.—The meeting then separated.

Joint-Stock Companies.—By the report of the registrar, which has just been published, it appears that 165 joint-stock companies were provisionally registered during the year 1849, 31 of which have been completely registered, and 134 have not obtained complete registration. The fees received for registration during the same year have amounted to a total of 29371.—28911. 68. being paid at the bead office in London, and 311. 14s. in Dublin. The number of companies which have failed to make any return of auditors, or of a report by an auditor of their accounts, during the year 1849, was 59. No proceedings, however, had been taken thereon.

BARNET AND NORTH METROPOLITAN.—On Monday, Master Tinney placed on the list, as liable, the names of the Hon. Fitzhardinge Berkeley, Captain Polhill, Messra. Green, Freeman, and others, of the provisional committee, on the ground that they had attended meetings of the provisional committee, and, as members thereof, signed cheques and minutes. Captain Polhill did not dispute that he was a member.

WARWICK AND WORCESTER RAILWAY.—On Wednesday the winding up of the affairs of this company came on before Master Blunt, on petition of the shareholders, who state that the proposed capital was 700,000 L, in 35,000 shares, of 20 L. each, deposit 2 L. 2s. The provisional committee incurred debts and liabilities to a considerable amount, 10,000 . of which are still outstanding, with an inconsiderable sum as assets. Mr. Ernest has been appointed official manager, to investigate and wind up affairs.

liabilities to a considerable amount, 10,000L of which are still outstanding, with an inconsiderable sum as assets. Mr. Ernet has been appointed official manager, to investigate and wind up affaire.

GROWING RHUBARR IN A COAL-PIT.—A collier of the name of Dearden, in the employ of Mr. E. Radeliff, of Woodland Cottage, near Stannington, planted a root of rhubarb on the 6th of March, in the pit, 37 yards below the surface, and on Tuesday last, the 9th inst., he cut six or seven stalks about 20 inches in length. This subterranean practice might probably be applied with great success in the production of that delicious vegetable, sea-kale, and we advise Mr. Dearden to try the experiment.—Sheffield Times.

WHEAL LANGFORD.—This mine is situated about a mile south-east of Callington, and about the same distance from Kit-hill granter range, and is in a beautiful killas, the heads and cross-heads of which present a strong red iron appearance at surface or shallow; at some depth the killas becomes more of a light blue colour.—I speak of the eastern end of the sett; the western end is quite of another character of kills, although the lode does not change its colour and character in depth as in the country. At the first working of this mine it was called Wheal David, and worked jointly with Wheal St. Vincent and part of Wheal Duchy, the property of three persons.—W. Worth, B. Tucker, and D. Horndon. Eags. From the different lords 'lands a great quantity of silver-lead and ailver gossan ores was risen and sold; at length a smelting work was cracted, and there they smelted their own ores, and refined their own silver for many years, when their two large water-wheels became overpowered by an influx of under water; a steam-engine was then erected, and a new shaft sunk to intersect the lode at a given point; this shaft was sunk to about the 35 fm. levol, and a good lode of silver taken away above and below the 25 fm. levol, when a dispute arose between Mr. Carpenter, of Morwelham, and the other shareholders, and the mine was st

ACCIDENTS.

West Caradon Mine.—As James Climo, aged 15, was engaged in rolling some stuff nated reported and on his arrival at the plat for depositing the mineral, as he was in the act of taking the candle from the forepart of the barrow, which he had emptied, having placed one foot in it to do so, it overturned, and precipitated him headlong into the shaft, to the fearful and almost unprecedented distance of 104 fms. (624 ft.) His mutilated body presented a sad spectacle, being literally smashed to pieces, especially his head, of which the hinder part was almost, or entirely, gone; the different parts of his body were collected, placed on a frame, and conveyed to his home.

Burnley—Explosion of Fire-damp, —Another of these melancholy catastrophies occurred yesterday week at the Town House Colliery, Great Marsden, by which six lives have been sacrificed. Their names are—T. Sheer, J. Chadwick, R. Howarth, T. Wilson, and J. and W. Brunton, brothers. It appears that Steer left the other five at the bottom of the shaft while he went into the workings, with a safety-lamp, to see that all was safe. The others impradently followed, without waiting Steer's signal; and J. Bunton (it is supposed) took the top off his lame, when an explosion took place, by which all six were killed. Six widows and eight children are thus left destitute by an instantaneous blow, caused by the recklessness of one of the sufferers. The colliery is worked by Messrs. Spencer, Wilson, and Co., to whom no blame can be attached, nor to Mr. Sager, the agent, as takning off the top of a safety-lamp was against the rules; and he has decided that, in future, any man attempting to open his lamp shall be discharged from the employment.

Wolverhampton.—Abraham Love received such severe injuries on his back by a fall of

Wolverhampton.—Abraham Love received such severe injuries on his back by a fall of contains in a pit belonging to the Parkfield Company, that he expired about three hours afterwards. Deceased's son, a boy about 10 years of age, was working with him shortly before the accident, and he had sent him to fetch some timber to prop the coal immediately before it fell.

Brieriey Hill.—Thomas Roberts was killed on Tuesday, whilst at work in a coalpit Dudley Wood Colliery, by a quantity of coal falling upon him. The coal was removed quickly as possible, but it was found that he had sustained several severe injuries, at that he was quite dead. The deceased had tried the coal a short time before, when and another man thought it sounded safe.

— J. Round sustained a dreadful injury to his spine, by a fall of coal at the pit

and another man thought it sounded safe.

— J. Round sustained a dreadful injury to his spine, by a fall of coal at the pits of Messrs. Firmstone, at Bromley.

Ulverstone.—An old man, named Holmes, employed in a stone quarry at the foot of Hoad, was killed by a large stone, weighing nearly 2 cwts., which is supposed to have been rolled in sport from the top of the hill by some visitors, who had come to see the preparations for the erection of Sir John Barrow's monument.

Makero.—As Thomas Beaumont, who was employed in the Gallow-tree Hill pit, n Kimberworth, with two other workmen, descended the pit to commance work, and carrying a burning candle in his hand, they came to a trap door, which had been open, when an explosion took place. His two companions ran away, but Beaumont st still, unable to move; he was much burned, and had to be dragged away by two of workmen, but he never recovered his consciousness, and expired on the following night while at the beautiful and the second of the consciousness. While a "bank girl," named Martin, was pushing an empty skip near the mount of a coal-pit, in the neighbourhood of Wolverhampton, she accidentally slipped, fell down the shaft, and was killed by the fall.

[&]quot;The principal ends of a damurrer (says Miltord) are to avoid a discovery which may be prejudical to a defendant, or to cover a defective title, &c., Miff. Equ. Plead. p. 100." † The facts furnished by the note appended to this case, give what may be considered to this body of many "a short Chancery suit." In June, 1830, the Billwas filed; in December application was made for leave to file a supplemental answer, to enable the defendant to deny admissions to the interest of the plaintiff being ordered to amend the Bill, filed a supplemental Bill. In July, 1832, the original and supplemental causes were heard; but the defendant insisting on the statute of limitations, as a bar to the plaintiff defmand, an issue was granted to try the matter at law. At the Vork Assires, in 1833, the action was tried, and the plaintiff being non-suited, leave was given to more for a new trial. Upon the motion being made, a special case was directed to be framed, but before it could be argued, the defendant died; and the action being for Tort, terminated. See 5 Simon's CB. Reports, p. 423, note a. If the defendant had not died, the probability is, that the suit, "Greenwood v. Atkinson," would still occasionally grace the Gause List," of the Gourt of Chancery; more particularly when we consider the status of the parties—viz. the plaintiff being a capitalist, and the defendant an attorney.

I Recently, in the Vice Chancellor's Court, a point was decided in a suit instituted systems of the parties of the parties of the case was, that sufficient funds had remained to enable the court to give the solltary applicant his costs."—Law Times, March 16th, 1850.

Mining Correspondence.

BRITISH MINES

ALFRED CONSOLS.—At our setting, on Saturday last, we set the shaftman to open the ground in the 70 fm. level, for the purpose of making preparations for
sinking the engine-shaft under the 70 fm. level; the lode in this level, east of said shaft,
is about 6 ft. wide, worth for copper ore 30f. per fm., and, from appearances, we expect
it will improve as we open further east. The 70 fm. level; west cannot be driven for the
month, or mult the shaftment are ready for slaking. The lede in the wines sinking under
the 60 fm. level, east of engine-shaft, is 4½ ft. wide; 2 ft. of the neath part is very good for
topper ore, worth 40l, per fm. The 60 fm. level, east of Field's engine-shaft, is snapended
for about a fortnight, the ment being put to take down the south part of the lode, which
art is sanding for 4 fms. leag, and looking good for copper ore. The lode in the 50 fm.
art is sanding for 4 fms. leag, and looking good for copper ore. The lode in the 50 fm.
these mines since the last report.

PAR PRINTOWN.—We have had stones of lead in the west end, on the new

BARRISTOWN.—We have had stones of lead in the west end, on the new also, during the last west; the men are still driving north, in the 30 fm. level west end are still driving north, in the 30 fm. level west end in two on east and west lode), but have not yet discovered the lede. In the 30 fm, level meters are still still a lode, the ground is not so hard as last reported, and the lede is increasing in size; a good branch of lead on the north wall, about 2 fm, wide; the stope in the seak of this level, shout 3 fm. bohind the end, will produce from 12 to 14 ewts. lead per station; the stope in the bottom of this level is producing about 8 or 10 ewts. of itself are fine; in a winas, sinking also in the bottom of this level (now down about 4 fm.), we are a good branch of lead, from 4 to 6 in. wide, but not very regular, although arrying very smooth wall. In the 26 fm, lavel we have driven east about 1 fm, and the lode is all small. We are gotting on well with the cross-cut south of 310 shaft, in the 46 fm. wel, which is now in about 4 fms. We have been obliged to clear some part of the old oxidings in the 18 fm. level, before we drive a cross-cut south to intersect the east and set lead, which is now completed.

reat lade, which is now completed.

BEDFORD UNITED.—The ground in the 115 fm. level south is just the man as last reported. We are still driving north in the 103 fm. level, if a Andrew's rinze, in this level, the lode is without alteration. We continue to drive by the side of the lode in the 90 fm. level east. The lode in Bray's winze, in this level, is 2ft. wide, and orth 30. per fm. There has been no lode taken down in the 70 fm. level east. The

itches are looking favourable.

BRYN-ARIAN.—The lode in the engine-shaft is getting more compact, and islding more ore than it has since we commenced sinking under the 10 fm. level; the do in the 15 fm. level east is 6 ft. wide, with ore scattered throughout; the lode in the se, in the back of this level west, is not quite po good as last week, now yielding about 5 cwts. of ore per fm.; the lode in the shaft sinking under the shallow sdit level, on essam lede, is become rather disordered, and at present poor; the stope under the adit wall west is much improved since last reported—will now yield at least 15 tons of ore per fm.; the stope cast of the shaft, under the same level, will still yield about 15 cwts. of re per fm. We have engaged a vessel, and hope to have all the ore on board this week.

m; the stope cast of the shaft, under the same level, will still yield about 16 certs of per per fm. We have engaged a vessel, and hope to have all the ore on board this week.

CARTHEW CONSOLS.—I have great pleasure in being able to inform you clay of sundry importantifumprovements in this mine, which have been met with within its last two or three days. In the stret place I would notice the outgine-shaft, which is ing sunk is good ground-lode large, very mach improved in appreximent, risking sunk is good ground-lode large, very mach improved in appreximent, risking since looks in the north each in 66 fm. level, is found much more productive that herefore, in copper parameterly; din a rise which is in the back of this level, and hour? I fine, behind the one, regulated in the north cash in the very leady. From appearances we are entering late those investant branches which are and copper. In cutting into the lovel in the south end, in this vest, it is accertained to be very leady. From appearances we are entering late those indicates which are outlied. The lovel is the consecution of the country in the levels above. In the cross-cut from the iddle shaft, in the 15 m. level south, we have very executaging prospects, in finding any strings of feed in the country. In the tribute department I find no important transfor.

At the lower mine in the publishment of the outle-west on a branching health of the country when the publishment of the branch on the country in the different south, which alteration will, for health as beautiful the war now driving shows very good indications of mineral.

CRAIGW EN MINEES.—Both the eastern and western stopes are as last te-

sume, very shortly pring us in connection with the upper mine tode. The branch on which we are now driving shows very good indications of mineral.

CRAIG WEN MINCS.—Both the eastern and western stopes are as last reported. I have left the western stope, to four men, at 6l. per fm.; and also the eastern stope, to four men, at 6t. per fm.—I shall put two more miners in each stope in the beginning of next month. I have refused to left the cross-cut in No. 1 sdit, as I expect them to cut the lode daily—here I have six missers and one labourer; the end produces where the cross-cut will intersect the silver-lead fode; this might have heaved it a few best further north. The eastern shaft will be cleared out to-day. I have been now down twice—ence in the stope, where the shaft was half cleared, which produces good saving stuff, though within 5 ms. of surface, and is upwards of 6 ft. wide; the lode does improve in going east towards the killas. I have also been down yeaterday, and have disade No. I addi. I find that we have 4 fms. to drive from the addi to the eastern shaft. The addit is 5 fms. west of the shaft, I am. of which has been driven. I would recommend six miners to be put en driving from the addit not the shaft, and thence continue to drive east till we got the lode into the killas, which must be near. It will be much elster of drive the 4 fms. from the addit to the shaft, than to haut the stnf and water out. I have four masons and four labourers on the crushing-thous. Last week we had much better weather than the week before; yesterday and this morning has been very wet. By the atter end of this week, if we have fine weather, I shall be ready for the engineer. I have now 30 men on the mine; next month I shall be able to put 12 more mun on. I have itseld the belast; next week I shall be the stope for first.

DAREN.—The ore ground continues to look very well in the back of the

DAREN.—The ore ground continues to look very well in the back of the level Canal, and the lead has improved in the level Coed, I should suppose that we have now about 700k worth of lead and copper ore broken, but it is more difficult to estimate quantities now than if the crusher was going on, and taking away the stuff broken monthly. The level Coed adit is now out open for the laying of a railroad from the mouth to the end, and there is a good orey lode in the end of the level, going back westward towards the old mine. Our floorings are so full of ore stuff that we cannot turn, and we are very anxious to get the mill to work to take some of it away, and send it to market. We have a drossing party spalling and preparing if for the crusher is a very good one, but I do not think it will be necessary to erect the stamps for some time, as the stuff is saily cleamed by crushing and jigging. The lead is now worth, for lead and silver, fully idl, per ton, and it is a pity we are not able to be in the market for a few days. The mason-work for carrying the frames is now building.

DRAKE WALLS.—The following report, from Cant. W. Welth was now and the sail of the sail of the contract of the sail of the sail of the contract of the sail of th

buil I do not think it will be meassary to erect the stamps for some time, as the sum! is easily cleaned, by crushing and jugging. The lead is now worth, for lead and siture, fully 181, per too, and it is a pity we are not able to be in the market for a few days. The mason-work for carrying the frames is now building.

DRAKE WALLS.—The following report, from Capt. W. Webb, was presented to the annual meeting of proprietors, held on the 18th inst.—a full report of the proceedings at which aspeared in our last Journal:—

Drake Walls Mise, April 3.—In the first place, I beg to call the attention of the share-holders to what I consider needful to work this mise to an advantage for the time to come. Brenton's samp-shaft is now nuck 12 mas, below the 66 fm. level, and we have just commenced to drive a 70 fm level; and it is highly necessary to push this level on with an amuch speed as possible eastward, towards the machine-shaft, so as to drain the ground and get the water to run through the 70 fm. level to Brenton's sump-shaft, and at the same time it will be opening the ground, which we shall be able to work to an advantage when we can get a winze sunk below the 66, should be sunk to the 70. The machine-shaft, which is now 7 fms. below the 66, should be sunk to the 70, and then drive sast and west from the shaft, as, by referring to the socion, you may see that this is in the easter of the tin ground; and, of course, winzes must be sank from the 69 to the 70 fm. level, in order to divide the ground and make it convenient for stoping. I expect this ground will yield well, looking at the present prospects, and more particularly the ground east of machine-shaft, on as to expedite the communication with the footway-shaft should be such from its present bottom (40) to the 50 fm. level, duding this, we shall lay open a great quantity of ground, which you may see by referring again to the section; and fully expect this ground will answer well, judging from present prospects. It is a wanted immediately, in order to ventila

one this year.

DEVON AND COURTENAY.—The engine-shaft was let on Friday last is 151, 15s, per fathom. The sumpmen have commenced to link, and will proceed with ill possible speed. We have only 4 or 5 fms. more to drive in the 40 fm. level west to be under the western shaft, when it is intended to hole to vestilate—price for driving 41. For fathom. In the 50 fm. level east there is ore in the leds, but not enough to save at resent, and still's large stream of water coming from the leds, which is considered a good diestion. On the tribute nights, there is no allocation, and the tributers are well as the contract of the left of the still a large stream of water coming from the leds, which is considered a good diestion.

will enable us to set several pitches at a fair tribute. Our tribute pitches much as usual. ESGAIR LLEE.—The caunter lode in the deep adit; west of the junction is not looking so will as when last reported, but I think the failure is only a partial one; neither is the north lode, in the deep adit, west of Morgan's winze, looking as well as when last reported. We have for the present suspended the 12 cm. level, west of Morgan's winze, and have put these men to stope in the bottom of the shallow adit west of Morgan's winze, in grior to relies work for the crusher, and to prove the course of the caunter lode in the 12 fm. level, east from surface, is still looking very promising, and will yield from 20 to 25 cws. of ore per fm. The massus are making good progress in building the wheel pit, &c., and I am informed the segments of the water wheel are quite ready, and are only waiting for a vessel to take them to Abersytwith.

segments of the water wheel are quite ready, and are only waiting for a vessel to take them to Aberystwith.

HOLMBUSH.—The lode in the 132 fm. level, west of the diagonal shaft, is 6 in. wide, composed of spar and spots of copper ore. The lods in the 130 fm. levels suit is 4 ft. wide, composed of quarts, prism, and stones of lead. The ground in the 130 fm. levels readered count, towards the flag-jeak lode, is much the same as last reported on. The 110 fm. levels count, towards the flag-jeak lode, is much the same as last recounts, is 18 in. wide, composed of spar, mundle, and stones of copper one. The tribute pitches, in the back of the level, are producing a fair quantity of ore.

KESWICK.—The 10 fm. level rise at Brandley is the same as last reported. The 20 fm. level south is looking promising, with small strings of ore; in the 20 fs. thom level north there is no alteration; the samp in Sali level is reather better. The 17 forehead at Thornethwalls still continues too wide and broken for bearing ore; but the ground remains good; the bottom level is looking better, with small strings of ore.

KIRKCUDBRIGHTSHIRE.—At Stewart's shaft, the lode in the 62 fathom level end west is 2 ft. wide, but not looking so well as last week. At Keith's shaft, the ground in the 62 fm. level one can shar become much better for driving, but otherwise it is much the safe; the lode in the west end is 4 ft. wide, with a good branch of ore coming in on the south wait, yelling 7 cwts. of lead to the fathom; the wine over this end also lead you for our in it to value.

southly, but no ore in it to value.

SOUTH WALES MINES.—The south, or Frongoch lode, in the 12 fm. levels at of the cross-cut; is 19 ft. wide, composed principally of gossan, quarts, and state, with little copier, and producing some states of lead, but not sufficient to set a value on. Ouring the past week we have been constanting on this leads, and in one of the pits, about 00 fms. cast of the old workings, we have discovered the lode, which is looking very promising, being composed principally of quarts, and only 3 ft. below the surface is producing ood stones of lead, and it hope my next report will be more favourable.

SOUTH WHEAL TRELAWNY.—The ground in the engine—shaft is still avourable, composed of a deep blue killies strata; we are sinking below the 50 fm. level with six men; the south cross-cut is driving, in the 50 fm. level, with six men in each reso-cut—ground much the same as last reported. _Every thing is in a regular course of working.

with any men; the south cross-cut is driving. In the 30 m. lovel, with all their in each cross-cutic aground much the same as last reported. _Every thing is in a regular course of working.

TRELAWNY.—At Phillips's shaft, in the 82 north, the lode is 2 ft. wide, worth 10, per fm.; in the 82 south the lode is 1 ft. wide, worth 3, per fathom. The 72 north is communicated with the 72 south of Trelawny's shaft, and the mes put to stope the backs; in the 72 south the lode is 2 ft. wide, worth 42, per fathom. In the 62 north the lode is 2 ft. wide, worth 12, per fm. Telawny's shaft is in good ground, and is now down a fms. I ft. 6 in. below the 32 fathom level. In the 82 north the lode is 5 ft. wide, worth 9, per fm. in the 82 south the lode is 4 ft. wide, worth 9, per fathom. In the 72 north the lode is 4 ft. wide, worth 9, per fm., in the 72 north the lode is 4 ft. wide, worth 9, per fm., in the 12 south the lode is 2 ft. wide, worth of Trehane, are not side to work at present, in consequence of the badness of the six, but we intend to take steps to remedy this shortly. In the north of Smittle shaft the lode is 2 ft. wide, worth 12, per fm. The stopes throughout the mine are much as usual.

TRELEIGH CONSOIS.—In the 100, west of Garden's, the lode is 18 in. wide, worth 64, per fm. The 90, west of dilto, the lode is 30 in. wide, with stones of ore, and is looking more kindly. In the 10, the lode is 30 in. wide, with stones of ore, and is looking more kindly. In the 10, the lode is 30 in. wide, with stones of ore, and is looking more kindly. In the 70, west of Garden's, the lode is 3 ft. wide, worth 64, per fm. Wheal Parent engine-shaft, sinking below the 40, is sinking in the country—ground hard; the 40 cross-cut, south of dilto, is diving towards the middle lode; in the 40, east of dilto, the lode is 2 ft. wide, worth 32, per fm.; in the middle lode all tipe each of Nichelson's shaft, the lode is 15 in. wide, worth 92, per fm.

WEST WHEAL JEWEL.—The 85 fathom level, west of Williams's cross-cuture, on the same lode,

use stopes are working on tribute.

WHEAL BENNY.—Operations are continuing on the Benny lode in the lit level, and at 13 fms. from surface some good stones of copper are have been taken to lode; this lode, it is calculated, will come into Davry's shaft, in Lamherouce, at some 90 fathoms in depth. The Ford lode (Wheal Benny) was cut in the 30, in Davey's ust, some time since, and is now about to be intersected again in the 30 fathom level in avey's (Lamherous). The monthly cost, operations being suspended in Ford shaft, is

Davey's (Lamhercoe). The monthly cost, operations being suspended in Ford shaft, is very small.

WHEAL FRANCO.—The lode in the 62 fm. level, east of the engine-shaft, is 3 ft. wide, composed of can, mundic, and occasionally good stones of ore; the pitches in the back of this level are producing fair work. The lode in the new winze, in the bottom of the 32 fm. lovel, east of the engine-shaft, is 3 ft. wide, producing good works; it is a very promising lode; this winze is about 16 fms. east of the present end of the 47 fm. level, and I have no doubt of meeting with a good lode in this level before we get under the winze; we have about 19 fms. more to drive to communicate the 32 fathom level to Spcy's shaft, with the main engine-shaft; we shall then bring all the water from the eastern part of the mine to our present engine-shaft. We expect to communicate the rise in the back of the 33 fm. level, cast of Spry's shaft, with the 20 fm. level, in about its weeks, after which time we shall resume the driving of the 32 fm. level wards Wheal Massah. Our next sampling in the coming week will be about 110 tons.

WHEAL LANGFORD.—Our prospects still continue to improve, especially in reference to the copper lode; this lode is driven through just where the aliver was discovered, and is found to be from 3 to 6 ft. wide, impregnated with copper all through, nearly the whole of which is saving work; but, before we can make any considerable return, we must creek stamps, which will be worked by water, and which we are praparing to do with all possible speed, and hope, in a menth, to get them to work, after which we shall be able to return about 30 tons of copper per ments, worth from 124 to 154, per ton. We are still driving the cross—our from Mallachi's shaft, and hourly expect to cut the lode; the end continues very wet, indicating that we are very near. We have also commenced driving upon the croper lode north, near Langford shaft; it appears that this lode has never been driven through; therefore, should we cut it at this poi

some for the market, and shall have about \$ ton ready for sampling early next mostin.

WHEAL PENHALE.—The sumpmen have now completed the change pitwork, and are getting on very well in sinking the engine-shaft, which is going dot in good ground. The lode in the 30 fathom level end north has for some time past be disordered by an elvan course, but is now found to be regaining its former appearance good stones of lead are found in it, and leok very promising. The lode in the south as the level, shows better than it has for some time past, producing greater quantities lead and copper. Having holed the wirze from the 10 to the 20 fm. level with which is a very good lode; this winze is about \$ ins. ahead of the north end 30 fm. level. Wherein the is a very good lode; this winze is about \$ ins. ahead of the north end 30 fm. level. To lode in the 10 fm, level south continues very large, producing a little lead and coppe but is not rich. The tribute pitches are improving in appearance.

is a very good lode; this wince is about 3-fms, shead of the north end 30 fm, level; The lode in the 10 fm, level abouth continens very large, producing a little lead and copper, but is not rich. The tribute pitches are improving in appearance.

WHEAL PROVIDENCE—The engine and the whim-shafts are cleared up to the adil lovel; the winn-shaft is timbered, and the whim will be completed in a few days, when the tributers will begin to hani and dress their ores; they have a good pile of ore broken, and we have a good plat to put it in underground. The pitches continue to improve, and the mon will do well. I set another pitch on Tuesday last to E. James and pars, for two months, at 10s, in It. The great goesan lode is increasing in size, being now 8 ft. wide, impregnated with copper ore. I shall be able to speak more fully of this in the next report.

in the sast report.

WHEAL SABAH.—The mine is looking very kindly at present. We have taken out stones of lead from the 30 end this week 7 its, weight of solid leaders of ore, and I believe there is a bunch of ore at hand. The sinking of Mayhew's shaft has been discontinued, and the flat-rods from that shaft to the engine will now become available, to assist the engine in keeping the engine-shaft in fork to the 30 m, level. Thus the operations of the mine are confined, for the present, to the rationing of the gossan from the 20 fm, level, and ore from the lode in the 30. The crusher will be ready to work in about 14 days, and 5 or 6 tons of ore probably be sent to market within the same period. WHEAL VINCENT.—There is no material alteration in the lode in the eastern shaft since you left. I was underground last evening, and am happy to state the lode in both end is a still productive, as last reported. The engine continues to keep the water in took, and the work from those ends is keeping both stamps continually at work. The mean are this day taking down the lode in the western shaft, which I shall report on more fully next week.

WHEAL YOLLED.—The pitches are looking just as when last reported on, but have turned out more tin than I expected. Our sampling will be about four tons.

FOREIGN MINES.

AUSTRALIAN MINING COMPANY.—[Received on the 17th April.]

Adelaids, Jon. 12.—Enclosed you will receive a copy of Capt. Phillips's report (monthly)
dated January 4. I likewise transmit herewith the copy of another letter from him,
dated the 10th inst., the tenor of which is very grarifying, as showing that our hopes of
an improvement in cuttless through the lode were well founded, and that the end in the
40 north is again looking better. The result of our researches is this—that between the
30 and 40 fin. levels we had a fine wide lode, yielding a large quantity of the richest copper ore; and the auxious and all important question to be selved was—whether of no

this look holds down to the 60.2. We have now ascertained this it does, and that it has look nothing of its subsistantial weel-defended characters being estimated at 12 ft. in width. Its produce, however, remains to be saccrishmed, but an antive cooper and cooper one were met with, and shing both in Masterman's shad and in Stephen's wines, I think I and Justified in reporting our prospects for presenting a very enhouraging operational reporting our proposed as presenting a very enhouraging operational reporting our proposed as presenting a very enhouraging operational reporting our proposed as presenting a very enhouraging operational reporting and the control of the contr

of hard quartz, fron pyrites, and large and frequent steems of yellow copper lyyfrics, and the further we advance the ore increases in quantity. Most likely we shall have to entithrough a lode 12 ft. thick; and, as all the ore has hitherto been found on the castern side of the lodes, there is yet a good chance we shall soon have to report a course of yellow ore in the 50 fm. level.

In the 40, north from Phillipa's winze, on Baker's lode, we have imperfect ventilation, and, consequently, employ no more than four men. In this end there is a decided improvement in the appearance of the lode, which, for 8 ft. in width, it thickly spoted and coated with green carbonate of copper; this end is now within 15 ms. of the originally proposed engine-shaft, and, for want of said shaft, there will be some delay in driving the 40 east, for want of proper air. This shaft will still be eligible as an engine shaft when required and will greatly facilitate the future working of this mine; at present, however, the casine on Anstey's shaft will drain Masterman's. The new shaft, 70 ms. sheep, in a hand granile rock, of 200, per fm., and though a great many first however, the casine on Anstey's shaft will drain Masterman's. The new shaft, 70 ms. sheep, in a hand granile rock, of 200, per fm., and though a great many first however, the casine will be strain in this place to be mineralized, which, taken in connection with the gradually improving state of the 40 north; is certainly more encouraging as to our future prospects in this part of the mine.

In the adit south, on Herne's lode, we are now driving east waved, expecting this lose to be within 2 fms. The strata is soft (20 per ton), and favourable for copper. The 40, cust of Mastermann's, is now again reaumed, to Intersect any lode or lodes in that direction; the ground hard, but likely to be casier soon enterty with your lodes or lodes.

The 40, cust of Mastermann's, is now again reaumed, to Intersect any lode or lodes in men in full working on! it, it loge to be also generated

from it is the 50 fm. level; we, therefore, employ two men in it, and is all saving work, it as fast as the water drains down. There is a large lode in it, and is all saving work, chiefly for stamps.

It will be seen by the setting list, that the value of the lode in the different intwork bargains is not so high as usual, neither are the tribute pitches turning out so well as was expected. The stoping on tatwork, and the recent working on tribute, prove that on "aide lode" the 50 fm. level was much richer than above and below. It is, however, a fact that we have raised upwards of 1609 tons above the water level; and as the lode continues its large size in the 50, there is every reason to expect that, by perseverance, we shall have a valuable mine; and the fact of our having raised, a large quantity of sich ore above the water level, is a sufficient inducement for laying open the mine to a greater depth. The mascoary of Austoy's engine is already raised 6 fast from the toundation, and there is every prospect of its being set to work in April or May next; after which we shall be also raising orce from Anstey's and Hager's lodes, and, by means of the stampting mill propare the halvan ore (now at surface) for the market.

Tangelillo, Jan. 10.—Capt. Paul is just arrived from the imme, and has brought a fine stone of yellow ore from the 50 fm. level, and says it is much improving; also, he says, there is more in the 40 north. I received yours of the 7th loxant; the instructions coperation of the received and the stamp of the particulars and carpenters have arrived heart.

IMPERIAL BRAZILIAN MINING COMPANY .- [Received April 17.] • IMPERIAL BRAZILIAN MINING COMPANY.—I ascensed April 11. J. Banadal, Junuary 23.—I have again the pleasure of informing you, that the 10 days produce, ending to-flay, although not as great as the last, is tolerably/good; the'ven still continues to yiold; but our stopes having reached the back of the 14 fm. level, very little more can be expected from it, except below the level, where I have great hopes of its continuation. We have, however, some ground, near where this gold has been obtained, that we expect will produce good stamping work.—this we shall begin to take away immediately. It will be seen by the capitain's report, that some samples of gold have been found in the bottom of glibbon's shaft, and from the nature and size of the grains, I have great hopes that it is about to open a new feature; but hitherto so very little has been seen, that it is yet premature to give an opinion of it.

great hopes that it is about to open a new feature; but hitherto so very little has been seen, that it is yet premature to give an opinion of it.

Goupo Sec.—On my visit to this place last week, I found all the works in hand progressing satisfactorily; the re-creetion of Goldamith's stamps is in a forward state. The large axis from Gata Freta has been deposited near Johnville's stamps, and is ready to be fixed; but before doing this, it is absolutely necessary to rebuild the wheel, as the one now at work is falling to pleces, and causes a great deal of hinderances to our stamping. The upper part of the open cutting has reached and half upon some parts of the old mifre. The apper part of the open cutting has reached and half upon some parts of the old mifre, and the jacotings we are now extracting shows encouraging samples of gold. I have no doubt that my views with regard to this place would, in a short time, have been realised, as we are now amost in a position to work at a trilling expenditure per month, and good gold returns are certain.

Rangang Pès, 3.—Our operations, during the last 10 days, have developed nothing

as we are now almost in a position to work at a trifling expenditure per month, and good gold returns are certain.

Bananal, Peb. 3.—Our operations, during the last 10 days, have developed nothing new in the mine; our different works, both at the surface and underground, are progressing regularly, and are tolerably satisfactory. The carpenters are very busy in getting ready the maschinery and large pump work, to be worked by the firm wheel, the necessity of which is very avident, from the dilapidated state of thomas's wheel, which is enearly failen to pleces. I regret to say, that we have had ne work for the washing-house meanly failen to pleces. I regret to say, that we have had ne work for the washing-house which we care to dispare the sum of the progression of the state of the same properties only a few day for finish the timber-work, &c., so as to render it complete. Gibsen's shaft is now for the same progressing regularly; the water is vory quick, but not more than I expected; we are complete masters of it with the present imperfect state of machinery. The gold discovered in the bottom of Gibsen's shaft, and made manifon of in my last respects, has not developed much riches yet, and the since of the state of the sta

Gongo.—Our produce here has a liftle improved in the last 10 days, and I have no doubt of this going on progressively as we get into the main body of the jacotings. I regret, however, that no discovery has yet been made in the western part of the mine, atthough the great western stamps, during the last 10 days, has yielded 1 ib, oz. 18 dws. of gold from reiscalianeous stuff supplied. Capt. Guy's report, which I beg to hand herewith, will show, the progress making in getting up the Goldsmid's stamps, which I hope will be as statisfactory to you as it is to myself.

though the great western stamps, during the last 10 days, has yielded 1 lb. 0 oz. 18 dwisof gold from miscellaneous stuff supplied. Capt, Guy's waport, which 1 begt on hand herewith, will show the seogress making in getting up the Goldsmid's stamps, which I hope
will be as satisfactory to you as it is to myself.

Feb. 18.—I-have now mothing of importance to communicate. Our different work are
progressing as regularly as eigenum tennes will allow. A few boxes of coarse work lave
been obtained from the stopes in the back of the 14 fm. level, near Gibson's shaft, which
yielded 1 oz. 18 dwis.; and I regret that the stamps work has also been very poor. We
have not yet been able to begin stoping the bottom of the 14, on the trun of the big pump
wells; but hope to do so in the coarse of a day or two! the present stopes are already
down to the lavel. Another braskage of Walker's horizontal rods has cocurred, which
has somewhat impeded our works. This, I four, will always be the case, until the whole
run is completely replaced by now—a great part of which has already been done, by paiting in new pieces, when a breakage cocurs; instead of patching the old. Gibson's is now
I fmis. dolow the 14 fm. isvel, having aunk 8 ft. in the last 10 days; the roin in the bottom has been lately showing tolerably promising traces of gold, and is otherwise encourraging. I think the opinien expressed in my last respects, will regard to the three auriferous lines in the big pump rein, is now verified.

Gibbes' shaft has been completed to the 14 fm. lovel, and the erection of the new whim
on it is in a very forward state. We shall soon commence sinking this shaft forwards the
24 fm. level; a plat, however, in the 14 must be eat previously—this has already been
commenced. We are using every exerction to get the bots and other machinary ready
for the iron whoel; sween, antive carpenters are omployed in making large pumps, to
be placed in Gibson's shaft, to supersede those in Thomas's, which are delective, and itse
old wheel is in

LINARES MINES .- The following has been received from Capt. Curry :-

LINARES MINES.—The following has been received from Capt. Curry:—

Pose Ancho, April 6.—The water is now drained \$\frac{3}{2}\$ fms. below the 31 fm. level, and we expect to see the 45 fm. level by the latter end of the present month. A little of the old workings about \$\frac{3}{2}\$ angar winze, below the 31, has been examined, but nearly the whole of the lode has been carefully removed. The large excavations made, with the appearance of the lode in the few arches left standing about this place, lead us to conclude that wast deposits of lead had been found here. Wilson's shaft is smak \$\frac{3}{2}\$ fms. below the \$\frac{3}{2}\$ and of the lode in the few arches left standing about this place, lead us to conclude that wast deposits of lead had been found here. Wilson's shaft is smak \$\frac{3}{2}\$ fms. below the \$\frac{3}{2}\$ and it is smak \$\frac{3}{2}\$ fms. below the \$\frac{3}{2}\$ with a present appearances and the information furnished, we expect to meet with some good ground in our course down to the 45. We have seen some good ground a little west of this shaft, below the 31, which will be taken away hereafter on a low tribute. Shaw's shaft is now the course of the lode; we expect it is shaft will now be smak tolerably speedy, and when having reached the bottom of the old work, we may expect some lead from this place. San Juan shaft is now smak to a depth of \$\frac{3}{2}\$ fms. below the 17 fm. level; we hope to see this shaft connected with the 31 fm. level west has been son; the lode in the present end seems to be disordered and unproductive, though very rich to within a few feet of the end. We consider this level is very near the large flookan seen in the 17 fm. level, which accounts for the unsortled appearance of the voin. Our tribute department is much the same as last month. One Englishman and four Spanish labourers, at a tribute of 20s, per ton.

Two contracts on the north lode (beathment is much the same as last month. One Englishman and four Spanish labourers, at a tribute of 20s, per ton.

Two contrac

The following has been received from Mr. H. Thomas:—
Lienzras, April 10.—We are bringing down the segunda, or ore, in lumps, to the suitable e for the English market, and I am glad to say this will be accomplished with a very all portion of waste, much less than we expected; we are pushing this business as much practicable. The Government engineer was here yesterday, and took a sample of our dore for assay, in conformity with the law, to determine the quantity of silver, prior exportation. We are also in communication with proprietors of donkeys, to load for culls. Since writing the above, one of the men has come up from Wison's shaft with no fine stones of lead, broken in the bottom; he reports the lode to be good for 18 in. 2 ft. wide, and we have to hope that the former workings are not very close to it, either zw, or in its length. The following has been received from Mr. H. Thomas:-

NATIONAL BRAZILIAN MINING ASSOCIATION.

NATIONAL BRAZILIAN MINING ASSOCIATION.

Cocces, Feb. 12.—You are aware, from the last report, that the operations at Hamilton's lower stope are carried on in the usual way, at least until some further change takes place in the appearance and direction of the lode, or in the layers contained in it; this stope is yet very promising indeed, for although the vein is small, good samples are frequently found amongst the broken ores, and the jacotings met with some weeks ago has disappeared, which, at all events, is in our favour, as regards the safety of the stope, and if there is any judging from past operations, it is a favourable indication respecting the gold vein. The wheel-pit, in the lower part of Hamilton's upper stope, is now getting on with rapidly, and the shaft, which has been iftle for some time, from want of an Euslishman to attend to it, will again be taken in hand in the course of a few days. At the Terra Cahida there is a strong party employed in driving towards the western vein. Cocaes greduce from 5th to 14th Feb., miss. 5 3 4 7; Calab ditto, from 28th Jan. to 16th Feb., miss. 5 3 6 16—miss. 8 7 2 23.

THE WORTHING MINING COMPANY.—This company has received advices from Adelaids to the 27th December last. The following is an extract from Capt. John Phillips's report:—

advices from Adelaide to the 27th December last. The following is an extraction Capital John Phillips's report:

I am to write you amply, first, as to the prospects of the mine. Captains Phillips, Richards, and Alsop, Join to corroborate my final report for August and September, 1848: Then, as to the operations, there is but one instance in which they preferred a different course from my own, and which the drawing herewith will explain; I thought of the same place for the shaft, but did not prefer it. In deference to their judgment, however, I see no reason to object to it. I intended mine as a trial shaft for the whole of the lodes and branches, and a good underlayer for lode; I their plan, I think, involves the need of another for lode 3. They shink my plan of cross-cutting the ground from one shaft would overpower the machine with water, and there is reason in this; and, amid all pros and cons, you may regard this alteration as having my concurrence. In the next place you will observe, I had begue a middle gully working, which, 4id our means permit, should have been done before; we have succeeded in showing this part to be also "alive" for our. You will see they also approve of these workings, by proposing their continuance, under the idea that this would be the best place for the steam-engine, which I always made an important question to myself; of course, the place already assigned is only in consequence of most ore seen.

ore. You will see they also approve of these workings, by proposing their continuance, under the idea that this would be the best piace for the steam-engine, which I always made an important question to myself; of course, the place already assigned is only in consequence of most ore seen.

If when the three lodes are cut at the middle gally, at an expense, probably, of 2001, they present a good appearance, nooled will dissent from preferring this piace for the engine it otherwise, the first postition is agreed on. I should have made allusion to this in former reports, but thought it massie, or futile, to look for more probationary time or money. You may recollect my remarking to you, there was preliminary work enough for 20 men here and there, and this was one point I always had an eye to in the real workings of the ground. As to the land, I shall be glad to see it occupied by surface to-naits, dairyman, and others. Then, for the materials, I am glad to hear of two tons of gunpowdee on the way? you may exceed the required quantities of this and fuse, they will often sell well.

There are not not not you was a fair price, to be named for available workings out of the first profits. I intend to send you accurate working drawings on a large scale early. I now cennicate with a copy of the Worthing Mine setting for the 8th December, 1849:—The middle gally cross-cut, east through the lode, at a price when done; then by the lode at 40s, par fin., putting a hole in it every 6 ft. The same lode west, by four men, one month, or 4 time-price per fin., 148. There is a horse-whim nearly complete, at the contract price of 68t. Six stone-bulk two-roomed miners' cottages, well getting on, at the contract price of 68t. Six stone-bulk two-roomed miners' cottages, well getting on, at the contract price of 68t. Six stone-bulk two-roomed miners' contages, well getting on, at the contract price of 68t. Six stone-bulk two-roomed miners' cottages, well getting on, at the contract price of 68t. Six stone-bulk two-roomed miners' cottage

ASTURIAN MINING COMPANY.

ANTURIAN MINING COMPANY.

An adjourned special general meeting of shareholders was held at the offices, Austinfriars, on Tuesday last, the 16th inst.

CHARLES CUNINGHAM, Esq., in the chair.

Mr. MACKENZIE (the secretary) having read the advertisement convening the original special meeting of the 26th March, and the adjourned one, and the minutes of the two last meetings, which were confirmed, after some discussion, a resolution was carried, to admit several holders of shares who had not paid the last two calls, who were in attendance, on condition that they took no part in the proceedings.—Mr. Moors then read the following reports of the directors, the committee of re-constitution, and the committee of investigation:—

DIRECTORS' REPORT.

the proceedings.—Mr. Moore then read the following reports of the directors, the committee of re-constitution, and the committee of investigation:—

DIRECTORS' ARFORX.

Slace the presentation of our last repair, we have succeeded in maintaining the credit of the company through a period of great difficulty. Finding that the payment of the last call, due the 10th November, was delayed in some cases from motives which led us to suppose that, if reasonable indulgance could be extended to the shareholders in default, a further portion of the call to ne inconsiderable amount might be collected, we convened, on the 8th of January, a private meeting of those shareholders whose contributions had already saved the property of the company from virtual conflection, in order to consult as to the best means of obtaining funds to meet the current liabilities. Having explained the position of the company's affairs to that meeting, it was proposed that we should raise a loan—the repayment whereof should be secured upon the manufactured iron in the hands of our agents. It was the only measure by which the necessary funds could be provided; and we unhesitatingly adopted it. We trust that the result is our best justification; for, since that period, we have obtained on account of the call 14951, and the loan has amounted to 36401.—of which 16801. was subscribed at the meeting to which we have referred. Had it not been for the receipt of these moneys, it would have been impossible to have followed the course originally defined for the company the favourable consideration of the Spanish authorities. With respect to the re-constitution of the board, and which alone, as we are well assured, has obtained for the company the favourable consideration of the Spanish authorities. With respect to the re-constitution of the company in Spain, it is proposed by this board that, in lieu of the permanent stock of \$0,0001.—the equation of which was originally proposed—the securities representing that sum should be converted into two classes of i

far as may be necessary, in payment of the present company's debts, for which in o the present Asturian Mining Company.—3. A deferred debt represented by debentures to be distributed amongst the shareholders who shall transfer their present shares for the commuted amongst the shareholders, who shall transfer their present shares for the commuted amongst the shareholders, who shall transfer their present shares for the commuted amount of 104, in the share of the new company. The payment of this charge to be provided for in manner already defined for the excitinguishment of the said proposed permanent stock.

We have constitution. The Weever, no such offer has been made, and the only course we can recommend is to re-constitute, unless you direct us to set up the property at auction, to be sold either at a reserved price or without reserve. We could not, on our own responsibility, resolve on a sale by suction, because we are of opinion that no sufficient bidding would be obtained. Our financial statement will be laid before you. During the present month our liabilities amount to 565. 15s. 9d., including \$654. 15s. 9d., and that sum includes 1011.—an account some time due, and 3794. 19s. 6d. for machinary, ordered by our predecessors, and prepared for shipment since August 1sar. Since an account some time due, and 3794. 19s. 6d. for machinary, ordered by our predecessors, and prepared for shipment since August 1sar. Since on iron previously mannfactared, and sent for shipment to Gijon and Avilas, the cost of bringing home the workmen and their families, and other charges, not properly arise bate to the current expenses of maintaining the works and concessions), has been, on an average, nearly within the amount allowed.—5001, per month. Against his there have the manner of the sent properly and the sent properly and the expenditure. We regist that the proceeds of the sales of our consignments have been, to the present time, but partially realised, and that further sales are but slowly progressing, because the machin

committee, on the 17th Dec., should be carried into effect in framing the new contract.

**Second INTERIM REPORT OF THE COMMITTEE OF INVESTIGATION.

**Your committee have made every exertion to proceed effectually with the primary duty of examining the accounts of the company, but the deficiency of vouchors has so far impeded our progress, as to render it impossible to form any definitive judgment upon the whole of the affairs, until the necessary explanations can be received from the company's establishment at Mieres. The company's manager being up to the present time fully engaged in other dutes, we deemed it impolitie to press him for immediate returns, and consequently the inquiries dependent on the information which he has to supply have been deferred to a more opportune occasion. Nevertheless, from the partial scrutiny already made, sufficient grounds exist to have justified us in arging upon the board of directors and liquidators the following opinions:—

1. That the balance-sheets which have been submitted to the shareholders are not correct.

2. That it is their duty in the liquidation upon which these seconds.

1. That the balance sheets which have been submitted to the shareholders are not correct.

2. That it is their duty in the liquidation upon which they are engaged to rectify those balance-sheets, for the purpose of returning a final and unimposcinable balance-sheet, upon which the ultimate distribution of the funds in liquidation can be made. Necessarily our co-operation will be given to the board in effecting that object; and when the requisite vouchers and returns arrive from Spain, we will give our undivided attention to the trust delegated to us, the arbitration of those cases which may be referred in persance of the arrangement made by the resolution of the meeting of the 25th September, preparing correct representations to enable you to form a judgment upon such other matters as may not come within the scope of such reference, and furnishing you with a final report. In the course of our proceedings, we have remarked that several of the directors have virtually cosed to hold the necessary qualification, although ostensibly they continued to possess it, under the restrictions defined by the statutes. We considered it to be our duty to state the fact to you, but at the same time to recommend that no measure should be adopted to remedy the defect, until the Spanish authorities should be consulted as to the proper course, for it is doubtful whether we can, in liquidation, proceed to an election of new directors.

The office of chairman, however, having become vacant, the board proceeded to nominate Chairs Caningham, Esq., as chairman, and we fully concurred in the propriety of that nomination. We also advise the posiponement, to a future occasion, of any question as to forfoliure on the present call, for the purpose of enabling those stareholders who are in arrear to provide for the payment, or to make some satisfactory arrangement for securing the same. Wiff the payment, or to make some satisfactory arrangement for securing the same.

suppowder on the way 1 yes may exceed the required quantities of this and fuse, they will often sell well.

There are three or four mines in the colony 1 should recommend at a royalty of 1-15th, paying also the present holders a fair price, to be named for available workings out of the first profits. I attend to send you accurate working drawings on a large scale early. The middle guilty care goty of the Worthing Mine setting for the sith December, 1849:—The middle guilty care goty of the Worthing Mine setting for the sith December, 1849:—The middle guilty care goty of the Worthing Mine setting for the sith December, 1849:—The middle guilty care goty of the Worthing Mine setting for the sith December, 1849:—The middle guilty care goty of the Worthing Mine setting for the sith of the contract price of \$400, par fm., putting a hole in it every 6 ft. The same lode wast, by four men, ohe month, at \$4.15s. The water-wheel shaft, to aint 8 of 1.0 may 5 ft. Hough 5 ft. H

any control over Spanish directors, which was the character of the deed to which the directors report referred. It was most important that they should have a board of directors in London. He said Lord Howden was shortly going out as ambassador to Spain; he knew no one so likely to support an English company; and, if through his lordship's interference, and other means, which would be influential for the purpose, he could get the late decree reversed, and allow them to go on as the Asturian Miring Company, they might still recover their position. He recommended to try a call of 3l. per share, making the 20l. per share paid up.

Mr. Moork said, he believed the influence of Lord Howden could effect much; but he was convinced that no chance existed of a reversal of that decree, having himself contemplated the same course; and he objected to the call, as the directors had pledged themselves not to make another call, nor would it be responded to if they did.

In answer to some rather uncomplimentary remarks from Mr. Webb, on the directors and liquidators, which were received with disapprobation by the meeting. Mr. Wilkinson said such observations were calculated to do more havin than good; their object now should-be tog hand in hand, and endeavour, by unitedly putting their shoulders to the wheel, to try if they could not turn it round. He felt that they were all highly indebted to the present directors and liquidators, who had rendered important services, and hitherto preserved their property from absolute confiscation.

A very long discussion ensued on the best means of proceeding, as they were in a dilemma for want of funds; unless the directors could obtain which, it was probable some Spanish bills would go back protested, which would immediately take the property out of their hands. At length a resolution was passed, electing Mr. Gillan, a liquidator, to assist in the endeavours to save the property. The reports of the directors and committee for re-constitution were received, and allopted.

Mr. Gillan, a liquid

the consideration deferred; that of the committee of investigation was received and adopted.

Mr. Gellan then suggested a loan of 10s. per share, to be secured to the lenders on the material and stock in hand at the works, and that the directors be authorised to borrow not exceeding 4000l, on mortgage of the property, which was unanimously resolved upon; and, on the motion of Mr. Moors, it was further resolved that, in the event of the directors and liquidators finding that, notwithstanding their powers to borrow, they could not keep up the credit of the company, or to carry on the works until some plan for resuscitating it could be agreed upon, they be authorised to proceed to winding-up their affairs, by petitioning to the Court of Chancery, under the Winding-up Act.—During the discussion, Mr. Gillan said he had, within a few days, had an interview with some parties on the subject, and he had no doubt there were capitalists in Staffordshire who would enter into a negociation for the purchase of the property, and he thought it highly probable 50,000. might be obtained for it. If further appeared, from the meet careful estimates that, on a working capital of 5000. A vear; but taking only half that sum, it would pay well for the capital employed. A vote of thanks was then passed to the chairman, and the meeting broke up, after a sitting of 3½ hours.

CONDURROW MINING COMPANY.

CONDURROW MINING COMPANY.

CONDURROW MINING COMPANY.

At a meeting of adventurers, held at the mine, on the 15th inst., the accounts were examined and passed, showing—Balance last account, 2751.33. 9d.; orego of tin, copper, and arsenic sold, 2004l. 12s. 1d.; poor rate illegally charged in January, 77l. 6s. = 2357l. 1s. 10d.—By labour cost Feb. and March, 1225l. 5s.; merchants' bills, 393l. 13s. 6d.; lords' dues, 100l. 4s. 7d.; dividend 2l. per share, 512l.: leaving balance in favour of the adventurers, 209l. 18s. 9d.—It was resolved, that the lord and his agents be requested to refer to the southern limits, as described in the sett; and that Mr. Pendarves be respectfully informed, that it is the opinion of the adventurers that the southern boundary extends 80 mas. south from the southern point of Condurrow deep adit.—That Capt. N. Vivian and Mr. J. S. Bickford purchase the mill of Mr. Coomb on the best possible terms, and that the next meeting be held on the 17th June next.

The following report, from Capt. N. Vivian, was read to the meeting:—

April 15.—Since our last meeting, we have commenced driving the 90 fm. level east

The following report, from Capt. N. Vivian, was read to the meeting:—

April 15.—Since our last meeting, we have commenced driving the 90 fm, level east
and west, which we have extended 9 fms.; in the western end there is a large promising
lode already opened upon from 5 to 6 ft. wide, and the north wall is not cut; the eastern
end is on the south (flookan) part, which is taking off fast; the lode referred to in the
western end is north of this part. The tin and ore ground explored in tile 30 fm. level
is about 65 fms. in longth—10 fms. west, and 25 fms. cast of Pryce's; the backs are in
course of working, at 4s. in 11., which has been our average tribute in this level; in the
80 west there is a very promising lode from 4 to 5 ft. wide, yielding tin all the width; is
the eastern end the lode is 6 ft. wide, producing 5 tons of copper ore per fathom of 9 per
cent.; the ground is very hard, and we cannot go forward fast; the end is suspended,
and a rise commenced, for the purpose of holing to the bottom of the 70; the rise and
bottoms are in ore ground; when these places are holed, we shall extend the level cast
and west, and also northwards, to cut the cauter and Llandower lodes, as stated in the
last report; it is very probable that the lode in the 80 east will be found north of Pryce's
shaft. Hope shaft is holde to the 70 fm. level, and ore and tin, &c., drawing from that
level through it. Woolf's shaft is in course of clearing below the 20 fm. level, and we
have no doubt of holing the 40 fm. level to it in course of the present month; and before,
our next account, to be held on the 17th June next, the old mine will have been mostly
cleared, and an opinion formed as to the returns likely to be realised from that quarter.
We are driving 11 levels on the course of the present month; and before,
we are driving 11 levels on the course of the holes besides these referred to, but on which
its unnecessary to make any remark, any further than that we consider them good specalations. The whin-house is now in course of

STRAY PARK, CAMBORNE VEAN, AND WHEAL FRANCIS MINING COMPANY.

MINING COMPANY.

The two-monthly meeting of adventurers was held on Friday, the 12th inst., when the accounts for Jan. and Feb. were produced, showing—Balance in hand, last account, 3894. 12s. 9d.; by sale of copper ore, 21404. 12s. 11d.; profits from Wheal Francis, Jan. and Feb., 984. 2s. 2d.—26284 5s. 10d.—Tutwork, cost for Jan. and Feb., 7184. 10s. 10d.; merchants' bills, 8744. 17s. 4d.; tribute pay on ores sold, 31st Jan., 1874. 1s.; subsist advanced on ditto, 2694. 0s. 3d.; lords' dues, payable on ditto, 894. 3s. 9d.: leaving balance in favour of adventurers, 9944. 12s. 8d.—A dividend of 10s. per share (5004.) was declared.

The following report, from Capts. Eustice and Ralph, was read:—

April 12.—In the 56 and, diving west in Campbray Venn, an porth branch, by two

lords' dues, payable on ditto, 894. 3s. 9d.: leaving balance in layour of altrensturers, 9941. 12s. 8d.:—A dividend of 10s. per share (5004), was declared.

The following report, from Capts. Eustice and Ralph, was read:—

April 12.—In the 55 end, driving west in Camborne Vean, on north branch, by two men, at 24. per fin., the lode is small and unproductive. In the 80 end, driving west in Wheal Francis, by two men, at 61. 10s. per fin., the lode is 10 in. wide, yielding stones of ore. In the 90 end, driving west in Wheal Francis, by two men, at 71. 10s. per fin., the lode is 6 in. wide, yielding 1 ton of ore per fathom. In the 100 end, driving westin Wheal Francis, by four men, at 81. per fithom; the lode is 6 in. wide, yielding 2 tons of ore per fathom; in the winze sinking below the 100 fm. level, in Wheal Francis, by four men, at 51. per fm., the lode is 2 ft. wide, yielding 3 tons of ore per fathom; in the winze sinking below the 100 fm. level, in Wheal Francis, by four men, at 51. per fm., the lode is 6 ft. wide, yielding 3 tons of ore per fm.; in the stopes above the back of the 100 fm. level, in Wheal Francis, by four men, at 51. per fm., the lode is 16 ft. wide, yielding 3 tons of ore per fm. In the 100 end, driving east on north lode is 3 ft. wide, yielding 4 tons of ore per fathom; the lode is 6 mill and unproductive; in the winze sinking below the 110 fm. level, in Camborne Vean, by four men, at 81. per fm., the lode is 16 in. wide, yielding stones of ore. In the 120 end, driving west in Wheal Francis, by four men, at 104. 10s, per fathom; the lode is 18 in. wide, yielding 3 tons of ore per fathom; in the winze sinking below the 120 fm. level, in Camborne Vean, by ax men, at 51. 10s. per fm., the lode is 18 in. wide, yielding 3 tons of ore per fathom; and the per fathom. In the stopes above the beack of the 170 end, driving west by two men, at 71. per fm., the lode is 3 ft. wide, yielding 2 tons of ore per fathom, and 104. per fm., in the stopes above the back of the 170 end, driving west to back of t

until our next sampling, we calculate on raising 600 tons of ore.

The following report, from Capts. J. and T. Richards, was also read:—

April 12.—In reporting upon the following points placed before us for our opinion, we take them in the following order:—I. What quantity of copper ore can be raised bimonthly in the fair working of these mines?—2. What quantity of copper ore can be raised bimonthly in the fair working of these mines?—2. What quantity of copper ore is discovered?—3. What dividend with the present standard?—4. Are the mines fairly and judiciously worked for the interest of fords and advanturers?—5. What quantity of copper ore is being discovered at present?—1. The quantity of copper ore to be raised, in our opinion is, in a great measure, dependant upon the means you have for the discharge of ores and "deads," inasmuch as you have only one principal shaft, for the discharge of stuff broken underground, and that an engine-shaft, we consider, before the question of increased returns should be argued, that another shaft should be sank in the mast suitable part-of the mine, for drawing through and better rentilation, for at present we discover not less than 3500 kibbles of staff underground broken in the levels, stopes, and pilohes, that ought to be at surface, and we presume it would not be sound policy to increase the returns of copper; at the same time not giving fair and full effect to the exploiting points on the different lodes. This is a deep mine, and the quantity to be drawn cannot be discharged with that sease and that time it could from a mine 100 fathoms deep; at the same time, we would near sease and that time it could from an line 100 fathoms deep; at the same time. The quantity of ore discovered may be calculated at 5100 tons on the whole; we would remark that, owing to the stratum and lode being very hard to break, it would require many years to be broken to the best advantage, for if the best ground be first affected, and so continued for a period of two years, it is possible the r The following report, from Capts. J. and T. Richards, was also read :-

nother shaft, we should relodes, as well as other points; we admit they are poor, and as there is no lave med upon them will continue so; but, insamuch as these lodes have former; tuctive for copper, we certainly should advise opening some levels whilst you'ridends, in doing which it may lead to discoveries that, in common probability in the returns, when the south lodes may not be so rich.—5. In carefully ex-il the turwork, and making such calculations as we are in the habit of doing long into detail, we have arrived at the canclusion that 200 tons plet of doing

BEDFORD UNITED MINING COMPANY.

The usual bi-monthly meeting of shareholders was held at the offices, Thread-needle-street, on Thursday, the 18th inst.

JOHN Browne, Eaq, in the chair.

The account of expenditure and receipts, showing balance of 12281. 12s. 7d. in a favour of mine, and an account of payments and receipts before the next meeting (11th June), showing balance of receipts over payments of 16401, 3s. 4d., including the above 12281. 12s. 7d., and an estimate of assets in reserve of 32281. 4s. 3d., were laid before the meeting, and passed. A dividend of 5a. per share was declared.

HERODSFOOT MINING COMPANY.

HERODSFOOT MINING COMPANY.

A meeting of adventurers was held at the offices, George-yard, Lombard-street, on the 18th inst., when a statement of accounts was presented, showing that the debt of 1700L, due at last meeting, had been paid off from the call of 5L per share (1280L), and from the profits of the mine, which, notwithstanding the accident that delayed the works nearly one month, have amounted, since the last meeting, to 594L 18. 7d.

Mr. WOLFRISTAN (the manager) stated, that the returns of the mine were now yielding 200L per month profit; that he had erected stamps at an expense of 100L, which would return about 8 tons of ore, worth 100L, per month from the halvans, or refuse ore; and that he had succeeded in obtaining a reduction of dues to 1-20th, thereby effecting a saving of 200L per year; and that more ore was being discovered in the mine than was taken away, thereby increasing the reserves.

Mr. John Watson was appointed secretary to the company, at a salary of 5L 5s. per month.

HEIGNSTON DOWN CONSOLS MINING COMPANY.

The usual two-monthly meeting was held at the offices, Threadneedle-street, on Thursday, the 18th instant.

J. Assuwell, Esq., in the chair.

The account of receipts and expenditure, showing balance in favour of mine of 3564. 16s. 8d., and also an account of payments and receipts before the next meeting (11th June), showing a balance against the mine of 2394. 8s. 4d., was laid before the meeting, and a call of 2s. 6d. per share made.—The assets in reserve are estimated at 3504.

The following report, from Capt. W. Richards, was read to the meeting.—

April 17.—The lode in the 35 fm. level, east of the cross-cut, is somewhat less productive
than when last reported on; it has, never theless, for about 8 ft. in length, produced from
3 to 4 tons of superior quality ore, and judging from present indications. I have no hestiation in saying that ere long it will become equal, if not superior, in produce than at
any time previous. In the middle cross-cut the lode altogether is from 10 ft. wide,
composed of gossum, friable quarts, peach, prian, and mandic, with a leader of tin ore on
the north part of the lode, 6 in. wide, The lode in the western cross-cut, so far as cut
into, which is 6 ft., presents most indultable promise that, at an increased depth, large
returns of copper ore will be realized from it. The pitch in the bottom of this level, east
of the winze, by two men, at 3s. 4d. in It, looks very promising, having a good leader of
ore, about 9 in. wide. In the 45 fm. level, east of the winze, the lode, capels and altogether, is about 3 ft. wide, producing excellent gossam, mixed with very good stones of
copper ore, of superior quality, with indications of further improvements. In conclusion,
I beg to say that by Friday next we shall have 20 tens, or ore ready for the market, equivalent to about 240t, to 25°1, and only regret, for want of means, that I cannot increase
my interest one hundred fold what it is at present, in this more than kindly adventure. The following report, from Capt. W. Richards, was read to the meeting .-

PENZANCE CONSOLS MINING COMPANY.

PENZANCE CONSOLS MINING COMPANY.

A meeting of adventurers was held on Wednesday, the 17th April, when the accounts, for Jan. and Feb., were presented, showing—Balance at last account, 1051. 11s. 7d.; tin sold, 5521. 19s.; sundries received, 102. 19s.—6692. 9s. 7d.—Costs for January and February, 2714. 4s. 6d.; merchants bills, 821. 10s. 1d.; lords and bounders' dues, 24f. 6s. 11d.; leaving balance in favour of adventurers, 2914. 8s. 1d.—The accounts were examined and passed, and a dividend of 2s. 6d. per share declared: leaving balance of 1632. 8s. 1d. in favour of company, after payment of dividend.

The following report was read to the meeting:—

The following report was read to the meeting:

April 15.—We have communicated the bottom, or 18 fm. level, from the engine-shaft west with Carthew's shaft; and we are glad to report that we have a good course of the west of Carthew's shaft; and we are glad to report that we have a good course of the west of Carthew's shaft; and we are glad to report that we have a good course of the west of Carthew's shaft; in the bottom of the mine, for 8 fms. long, and from 2 to 4 ft. wide; west of this, Boyne's lode joins with the engine lode; those lodes in this stope are 8 ft. wide, and good branches of tin throughout; in driving the 18 fm. level a few fms. further west, we expect to cut another tin lode, which is likely to produce a quantity of rich thistaff; on the north lode, we have a good course of tin, 2 ft. wide, for fms. in length, and still it in each level, east and west; and this is only 19 fms. from surface, and about 18 fms. in length, and 7 fms. high—say, 126 fms.—which have produced upwards of 44 tons of tin, amounting to upwards of 2979. worth of tin, equal to (say) 20.9s, per fm.; and we are glad to say that we never knew of any mine doing anything like this in the county of Cornwall. We beg to say, if the tin ground east and west, and in the bottom, produce tin for each fathom of ground as we go deeper, we may expect to have the best tin mine in either Cornwall or Devon. On Friday last, the 12th instant, Carthew's shaft was set to sink under the 18 fm. level by six men, and also two cross-cuts, in the 18 fm. level, to drive north to cut the north lode. We have now employed undergound 35 men on tribute, and nine men on tutwork; sandry other work undergound, and surface work—such as spalling, &c.—13 men and 7 boys; at the stamps, one man, two boys, and three girls; total number of hands employed, 61.

SOUTH WHEAL JOSIAH MINING COMPANY.

An adjourned meeting of shareholders was held at Tavistock, on the 5th inst, when the statement of accounts was presented and passed, showing balance of 71L 5s. 11d. in favour of adventurers. A call of 10s, per share was made for future operations, the cost for January being 27L, and the balance from last account, 98L 5s. 11d. There are some liabilities with February and March cost which, when paid, and all arrears of calls collected, will leave a balance of 5L 3s. 10d. remaining in purser's hands.

The following report, from Capt. John Hambly, was read:—

The appearances are improving. In the last 6 feet driving, the lode is about 2 feet dide, producing some good branches of ore, and appears to improve as we go forward, and I think is likely to lead to something good, having three known cross-courses before us. We expect a good improvement in the lode on intersecting it. In the south part of the sets we have discovered three large in lodes, which have been worked on extensively on the backs to the east; we have commenced driving a shallow adit to cut them, and expect, in a short time, to intersect one of them. In opening the mouth of this adit, we found some rich stones of shode tin, and, from the favourable indications, we expect som to cut a good lode of tin, and would recommend to continue the driving of these adit eads with all speed.

WHEAL GOLDEN CONSOLS.

At a meeting of adventurers, held on the 17th inst., the accounts were pro-luced, which show that, after paying all costs and engagements to the end of March, a cash balance remains in favour of the company of 3041. 10s. The following report was read to the meeting:-

The following report was read to the meeting:—

At the sugine-shaft, in the 70 fm. level, north of the cross-cut, the ground is rather harder, with spots of ore; within the last few days, the quantity of water from the end has quadrapled, leaving no doubt we are nearly under the over ground gone down from the 60 fm. level; we may, therefore, calculate we have 90 fms. of lode before us, which in the 60 averaged 1 to 2 tons per fm. The former company lost levels in driving the 60, so that we may average our backs in the 70 at 14 fms.; this, by 90 fms. in length, calculating only 1 ton per fm., will produce 180 fons of ore, and, at the price of our last parcel, will produce 18,2701. Thomas's shaft is about 50 fms. north of our present end, or about the middle of the overground. I propose, on getting there, to sink on the coarse of the lode another 10 fms., and draw the water with horizontal rods. This will give us the immediate command of 900 fms. more of the lode, or 12,0004, worth of ores, in addition to the above; but as it improves in depth, I have no doubt the above is a very limited settimate. In Marwell's shaft south, in the 43, the ground is a last reported. We have 16 sets of tributers in this part of the mine, who raise sufficient ore to pay our costs, as they have done for many months past; so that, from our north lode, we may now soon expect to make handsome dividends.—East Wheal Golden: In this adit level the ground is improved; the lode is 6 feet thick, made up with spar and goosan. We are above 14 fathoms from the civan cross-course, and 120 from the chaft, or pit, where the late company took many (ons of ore. On the whole, I believe the mines never looked so promising as now. The engines work well; the pumping-engine keeps the water with 4 strokes of the produce of the control of the commence work in green had the control of the control

preceing the Greston lode with the lode we are now tout 13 fathoms under the bottom of the present shaft, acc and quality of the one we raised in the lodes we nuction, from the appearance and quality of the ore we raised rised upon, cannot leave any doubt of a favourable result, and a le for their outlay.

WHEAL TREMAYNE MINING COMPANY.

wheal treeman, and the second of the counts were examined and passed, showing—Balance last account, 483L 18s. 9d.; copper one sold, Feb., 186L 7s. 5c.; ditto March, 180L 0s. 6d.; tin sold, Feb., 543L 5s. 3d.; ditto March, 947L 10s. 3d.; ditto April, 791L 19s. 2d.; lead ore sold, 17c. 19s. 2d.; arsenic, 63L (less lord's dues, 66L 16s. 1d.); West Wheal Providence water charge, 24.; carriage, 24.9. 4d.; sundries, 5L 18s. 2d. =8052L 7s. 11d.—By labour cost, Jan., 712L 1s. 5d.; merchants' bills, 274L 17s. 7d.; labour cost, Feb., 956L 18s. 2d.; from which deduct dividend of 10s. per share (513L), leaves a balance to next account of 444L 18s. 2d.—The issue of certificates of shares having been found to be attended with considerable trouble, expense, and irregularity, it was resolved, that such issue be discontinued; also, that the agents forward a report every fortnight, to be in London each alternate Wednesday morning.

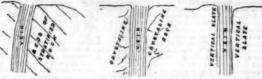
The following report, from Capts. Bryant and Phillips, was read:—Aprd 17.—At Laurie's shaft, in the 30 fm. level west on north lode, the lode is very large, yielding a little tin; there has been a cross-cut driven north, 6 fms. from this level, in order to prove if there was any more lode in that direction; not finding anything worth, it has been discontinued. At Madron's, in the 60 fm. lovel west, the lode is 2 ft. wide—tribute ground. *In the 10 miles of t

NORTH BULLER MINE.—A meeting of the original adventurers in this undertaking was held at the office of the company, Old Broad-street, on the 6th
inst., when a committee of management was formed, and a call of 7s. 6d. per
share made, payable on the 25th inst. Mr. R. H. Pike, of Camborne, was appointed purser, and the seelection of the son of Capt. Minery, of Caru Brea, as
Captain of this mine, confirmed.

TRELYON CONSOLS.—A meeting of adventurers was held on Thursday week, at the offices of Mr. Rodda, Penzance, when it was resolved to bring up Wheal Margary deep adit, which will unwater the lode at present worked on, and two others, which are within a few fathoms of each other, at a depth of 65 fathoms. The mine was reported to be looking well, and has nearly met her cost for several months past.

THE BWICH CONSOLIDATED MINES.

Sin,—A few weeks ago, in reporting upon these mines, I made an observa-tion upon the method of working, which I had no idea would have been made Sin,—A few weeks ago, in reporting upon these mines, I made an observation upon the method of working, which I had no idea would have been made public. It was to the effect, that we did not find stoping the ground 60 feet underhand to be safe, mentioning that, in this particular, I feared that Capta. Prince and Middleton's views could not be advantageously carried out in taking away the ore ground. I regret if this should have caused any feeling on the part of both or either of these gentleenen, as we are none of us infallible; and my object in making the remark was not to cast censure upon the well-carned high standing of these gentlemen. The truth is that, in Cardiganshire generally, the grain of the slate is from the south-west to the north-east, where the divisional planes follow each other at infinitesimal distances. These planes generally dip to the south eastward. Intersecting those planes, the slate is usually divided by a number of planes, running nearly upon the magnetic meridian, and dipping to the westward; the consequence is that, by the intersection of those two lines of planes, the walls of veins, bearing in an easterly and westerly direction, are divided into angular pieces of rock, with their bases towards the lodes; and when the metalliferous ores are removed, these fragments, as a matter of course, fall into the ground so excavated; and more particularly so where the vein has an inclination, which is the case with the Bwleh vein, to the extent of 20 in. in a fathem. I should suppose there are conditions of lodes and country which would not be liable to similar circumstances—for instance, where the slate and vein are both vertical, or where the layers of rock on the south wide being more or less horizontal, form an acute angle with the south wall of the lode—the north lode being crystallised during the operation of the crystallising influence that filled the vein, or in the last place where the lode is formed in a crystalline rock. Thus—



I did not mean to infer that there was any impracticability about the plans aggested; but that they could not be applied with safety to the Bwich Mine.

Goginan, April 18, 1849.

MATTHEW FRANCIS.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

CARADON VALE.—Several of the poor miners, who formerly worked this mine on their own account, have taken up shares in the newly-formed company. It is always a good sign when the common miners adventure, as they are the best judges of the situation of great mineral deposits.

best judges of the situation of great mineral deposits.

THE ROCHE ROCK TIN MINE has been taken by some respectable parties, who purpose fully to develope the resources of the mine. The capital to be raised will not exceed 5000L, which is required chiefly to put up a powerful engine, and sink to a greater depth. She is now in full work, and paying, with five water-wheels continually going. We are informed that a great number of the shares are already subscribed for.

WEST POLOGOTH.—They are much improving here; things generally are looking very well,

WHEAL TOM (STOKE CLIMSLAND).—They are driving on the gossan lode east, near the gate, in the eastern part, where the lode is cut, and will very abortly find by its bearing where to cut it further; in the east the lode is much larger than where they commenced, and of a splendid gossan as ever was seen. They will certainly have a good mine: it is a vast, rich copper gossan.

They will certainly have a good mine: it is a vast, rich copper gossan.

Wheal Vincent.—In our last Number, we inserted a long report from the agent of this mine (Capt. Spargo), setting forth its present appearances and fature; and we have since received a report from Mr. Adam Murray, jun., entering still more minutely into details, the exfreme length of which, however, prevents its insertion. He describes its situation in the Rough Tor and Willey Granite range, near the north-eastern boundary of the killas. The stratum ping in broad layers towards the north-east, underlaying the granite, and constituted of semi-decomposed and very hard granite, intersected by channels by numerous tin lodes, varying in their direction, and crossing each other, and forming junctions, which may, probably, be of considerable value. The various workings are then described, and it is stated, that to supersede the expense of either steam or water-power, a wind machine has been erected, the efficiency of which had not yet been tested. The works necessary to be carried out are clearly described, which it is stated might be effected at a moderate cost, and the expense covered by ores raised; that the appearances warrant the erection, and a fair investment.

Mining in Spain.—According to an official return lately issued, mining en-

WHEAL SOPHIA MINING COMPANY.

At a meeting of adventurers, held at the mine, on the 4th instant, the accounts were examined and passed, showing—Arrears due, 379.16s.; balance last account, 371.0s. 9d.; call, 1281.=5441, 16s. 9d.—By labour cost, Jan. and shares, 1845.6s.; arrears, 2221.10s.; leaves balance in favour of adventurers, 291.0s. 2d.—It was resolved, that the next general meeting should be held in December next, when Capt. Luke will be more able to satisfy the adventurers as to the nature of the lode, and as to the future working of the mine—The solicitor was desired to sue those adventurers who were in arrear; and a call of 5s. per share was made.—The following report, from Capt. Luke, was read:—

**spril 4.—Owing to the gear work not being forwarded in time, we shall not be able to guide the engine to work before the beginning part of next week, which will be a few days resume sinking the shaft with a full pare of nine men, which is 44 fms. appears that the furnaces generally are in active operation, and that lately some and in a few days resume sinking the shaft with a full pare of nine men, which is 44 fms. appears that the furnaces generally are in active operation, and that lately some and in a few days resume sinking the shaft with a full pare of nine men, although in a few days resume sinking the shaft with a full pare of nine men, although in a few days resume sinking the shaft with a full pare of nine men, although in a few days resume sinking the shaft with a full pare of nine men, although in a few days resume sinking the shaft with a full pare of nine men, which is 44 fms.

It is a substantial engine, and that the writer considers, the substantial engine, and that the writer considers investment.

Mining in Spain.—According to an official return lately issued, mining encassions have been making most satisfactory advance. In the

T	LONDON, AP	RIL 19, 1850.
1,8,00	Bar, boll, Esquare, London 25 15 0.6 15 Nail rods 25 10 0.7 15 3 0.6 15 Hoops 25 10 0.7 15 15 15 15 15 15 15 15 15 15 15 15 15	Tile
ı	I, 6 months, or 3 p. ct. dis.; m, net cash; n, 3 n	nonths, or 1 p. c. dis. ; o, ditto, 11 dis.

LIVERPOOL, AFAIL 19.—There was no change of importance to report in the state; this market since Friday last. There has been only a limited business done, and price of all descriptions of manufactured iron are without any material alteration. The order received by the American steamer on Tuesday not being so large as anticipated, but also also being so large as anticipated, but also being so large as anticipated, but also being so large as anticipated.

GLASGOW, Azar. 18.—We have to report a very dull market in pig-iron, seeming indisposition to do business on the part of both holders and buyers, he price of mixed Nos. at 42s. 6d. to 43s.—cash.

no price of mixed roos, at 425, ed. to 435.—cash.

— The slocks of Scotch pig-fron are stated to be heavier now than they have been superar past; and if we may take diminished exports as a criterion of increasing a would appear from the following returns, that a large additional amount is more added to that on hand:—

	JANUARY. Of January, February, 6	*****	maren, j	and .	cour frue	ndas, during	the !	honth
	Broomielaw		14,300		1848. 10,482 7,073	1849.		7,597 1,878
	Total, January Tons 16,454		21,690		17,555	15,507		9,478
	Broomielaw Tons 7,695 Port-Dundas and Kirkintilloch 9,407	****	9,537 5,499		13,903	5,160		6,238
	Total, February Tons 17,102		15,036		26,030	15,640		9,064
I	Broomielaw	****	12,724 14,917	****	15,861 20,417	17,914		8,728 8,028
I	Total, March Tons 23,983		27,641		36,278	22,669		6,824

pour heavy stocks, which at times amounted to one million cantars, are not likely to accur whilst the demand keeps pace with the supply.

LOCOMOTIVE ENGINES.—We stated in last week's Journal that the Austrian Government had published in Berlin an offer of a prize of 20,000 full weight imperial ducats for the best locomotive railway engine, constructed to run on the line about to be carried over the ridge of the Semmering Mountains, on the frontiers of Lower Austria and Styria, at a height of 464 Vienna fathoms above the level of the Adriatic Sea. From the highest point to the station of Gloggnitz, in Lower Austria, at one end of the railway, the fall is 243-2 fathoms, and the distance, following the course of the railway, 3-8 miles. From the highest point to the station of Mürzzuschiag, in Styria, at the other end of the railway, the fall is 142 fathoms, and the distance by the railway at 6 mile. The greatest rise of the different gradients is 1 in 40 of the length; and the longest of the gradients is 1671 fathoms. The shortest radius of the different curves is 100 fathoms; but in the steepest rise of 1 in 40, no radius is shorter than 150 fathoms. The longest curve with this radius, and at the greatest rise, extends 293 fathoms. One of the chief qualifications for the required locomotive is, that it should be capable of transporting, in ordinarily favourable states of the weather, a gross weight of 2500 Vienna centner, exclusive of the tender, at a speed of 1½ Austrian miles an hour (4000 Vienna fathoms to the mile) over the greatest ascent at the most unfavourable curves. The locomotive with still greater capability would obtain the preference. It has been determined that the Austrian Administration of State, besides the acquisition of the prize locomotive, should also purchase five other locomotives, at amounts from 6000 to 10,000 fall weight Imperial ducats. The regulations to be observed in the choice of the locomotives have also been fixed. Herronorements, Forker of PDBAN, AND GLOUGESTER RAILWAY.—During t

geners of both companies, should meet, and enter fully into the question, as to the engineering details of the line from Ross to the Grange, with the view of finally settling the matter.

Shhopshire Mineral Railway.—Petitions for the winding-up of this company's affairs have been served on the provisional directors, pursuant to an order to that effect from the Court of Chancery. The petitioners state, on affidavit, that the undertaking was started in 1845, with a proposed capital of 8,000l.; that Mr. Sergeant Adams, of Wood Lodge, Shooter's Hill, and Mr. Frederick Lyon Price, acted as provisional committee-men, allotted the shares and received deposits; that these have in their hands, and are otherwise liable to account for, assets to a very large amount, but have never rendered to the shareholders any proper or sufficient accounts of the receipts and payments.

FALL OF A WIRE SUSPENSION BRIDGE.—A dreadful accident occurred to the 11th Regiment of Light Infantry of France, on Tuesday last, by the fall of the wire suspension bridge-dwer the Loire, which separates the town into two districts, while the men were passing over it. It appears that the bridge was considered perfectly safe, but that a severe storm was raging; and at the moment when the whole of the bridge was covered with the men in full march and, consequently, causing great vibration, a whirlwind-like gust took the bridge full on its side, the wire suspension-rods gave way, and the whole fell into the rapid stream beneath. It is variously stated that from 200 to 400 men have lost their lives; but as the battalion is known to have 282 men missing, the number is, doubtless, above 300, among whom were some persons from the town, as the bodies of a servant and two children have been found. The colonel, who was on horseback, fell with the rest; but his horse swam ashore, and thus saved his own life and that of his master. The regiment was bound for Algeria; and several of the soldiers' wives and families, who were going with the regiments, fell victims. I

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Sorr. P

Current Prices of Stocks, Shares, & Metals.

Bank Stock, 8 per Cent., 207 \$ 6\$ 8 per Cent. Reduced Ann., 98\$ 6 \$ 8 ger Cent. (Doneola Ann., 98 5 6 \$ 6 4 per Cent. (Ooneola Ann., 96 55 6 \$ 6 4 per Cent. Ann., 97 \$ 7 \$ 1 Long Annulles, 6\$ India Stock, 10\$ per Cent., 266 2 per Cent. Con, for 9th Muy 96 \$ 6 3 acheq. Bills, 10001. 1\$40. 688 70 pm. Bolgian, 4[‡] per Cent., 55[‡] [‡] Brazilian, 5[‡] per Cent., 55[‡] [‡] Brazilian, 6 per Cent., 96[‡] Chilian, 6 per Cent., 96 Mexican 5 per Cent., ex Coup., 29[‡] 9 Russian, 5 per Cent., 106[‡] Spanish, 5 per Cent., 106[‡] Ditto 3 per Cent., 36[‡]

MINES.—Although the share market has not been so animated this week, still, upon the whole, an average amount of business appears to have been transacted in our home mines, while in foreign mining shares there has been an tanusual briskness, and an active inquiry is being kept up.

Trolawny, Heignston Down, Bedford United, and Mary Ann shares have been much inquired for, and transactions in each taken place.

Shares in the following mines have changed hands since our last:—Devon Great Consols, Treviskey and Barrier, Treleigh, Mary Ann, Trelawny, South Tolgus, North Buller, Trehane, Levant, Herodstoot, Gustavus, Pendarves, Stray Park, Tincroft, Trelyon, East Tanar, Bedford United, South Tamar, Wellington Mines, West Wheal Frances, Heignston Down, Cwm Erfin, Wheal Langford, Wheal Treville, &c.

We find that the mines in the far west are generally in a satisfactory state, and a considerable number of shares have changed hands during the last fortnight. West Wheal Treasury and Alfred Consols have been much in demand, and buyers have paid an advance. Transactions in Wheal Reeth have taken place at our quotations, and an advance is talked of; the profits for the last two months are estimated at upwards of 1000%. In Penzance Consols a large smount of business has been done at firm prices. Wheal Bal shares have been inquired after, and Spearne Consols is said never to have been in so prosperous a state as at present.

At the meeting of Stray Park, Camborne Vaen, and Wheel Francis Mines.

inquired after, and Spearne Consols is said never to have been in so prosperous a state as at present.

At the meeting of Stray Park, Camborne Vean, and Wheal Francis Mines, the statements of accounts for Jan. and Feb. showed a profit of 605L for the two months, which, added to the balance from last account, allowed a dividend of 500L, being 10s. per share, carrying to credit of next account 494L 12s. 8d.—
me excess over last account of 305L. The agent's report represents the mines in a progressively improving position, estimating, from present prospects, that the next sampling will amount to 600 tons.

At Bedford United Mines meeting, the account of expenditure and receipts was presented, showing balance of 1228L 12s. 7d. in favour of the mine. A dividend of 1000L was declared, amounting to 5a, per share.

At the Penzance Consols account for Jan. and Feb. the first dividend, being

was presented, showing balance of 1228/, 12s. 7d. in favour of the mine. A dividend of 1000/, was declared, amounting to 5a, per share.

At the Penzance Consols account for Jan. and Feb., the first dividend, being 2s. 6d. per share, was declared, after payment of which a credit of 163/, 8s. 1d. was carried to the next account. The report from the mine is very favourable. At the Wheal Golden Consols meeting, the accounts presented showed balance in favour of adventurers of 304/, 10s., and the report read represented the mine in a very satisfactory condition.

At Wheal Tremayne account, held yesterday, a dividend of 512/, was declared for February and March, being 10s. per share, leaving a balance of 444/, 18s. 2d. to credit of next account. The agent's report of the mine was highly gratifying.

At wheat remayne account, nearly secretary.

At Wheat remayne and March, being 10s. per share, leaving a balance of 4441. 18s. 2d. to credit of next account. The agent's report of the mine was highly gratifying.

At the Levant bi-monthly meeting, a dividend of 5t. per share was declared. At the Condurrow two-monthly account, a dividend of 2t. per share was declared. The ores sold amounted to 2004t. 12s. 1d., and a balance of 2094. 18s. 9d. was carried to next account, after payment of the dividend, amounting to 512t. At the Heignston Down meeting, a call of 2s. 6d. per share was deemed necessary. By the statement of accounts, we find a balance of 356t. 16s. 8d. in favour of the adventurers; but on account of payments and receipts before the next account (June 11), there will be a balance of 239t. 8s. 4d. against the mine, to meet which the call is made.

At the adjourned meeting of the South Wheal Josiah adventurers the balance-sheet presented 71t. 5s. 11d., in favour of the company, giving credit for arrears of calls. The liabilities are made up to end of March, when a credit of 5t. 3s. 10d. spepars. A call of 10s. per share was made. The prospects of the mine are represented as much improved.

At a meeting of the original shareholders in North Buller, a call of 7s. 6d. per share was made, and the official agents of the mine appointed.

At a meeting of adventurers in Tywarnhayle and Nancekuke, held on Tuesday, the accounts, for Jan. and Feb. last, were examined and passed, showing balance against adventurers of 1261t. 7s. 9d.

At Wheal Sophia meeting, a balance of 29t. was found in favour of the company, and a call of 5s. per share was made.

At Herodsfoot meeting the accounts exhibited a profit of 594t. 13s. 7d. on the last five months' working. The present position of the mine is very gratifying, showing that a profit of 200t, per month can be realised.

In Foreign Mines, there has been considerable animation during the week. The Santiago Mines are represented as having materially improved, and a very valuab

del Rey, Cobre, United Mexican, and Imperial Brazilian, have been in request. Copiapo, Australian, Barossa Range, Linares, and National Brazilians, have also been done.

The National Brazilian advices are to the 16th Feb., and the prospects continue as cheering as last reported, and the general indications highly favourable. The returns from Cocaes, from the 5th to 14th February is, mks. 5 3 4 7, and Cuiaba from 28th Jan. to 16th Feb., mks. 3 3 6 16—mks. 8 7 2 23.

The Imperial Brazilian Mining Association have received letters to the 13th Feb. Much encouragement to anticipate considerable improvements is presented by the reports; but a large amount of labour in the repairs of machinery, &c., is required, to bring the same into an efficient state of working, before the recent discoveries can be followed up. At Gongo some considerable improvements had been made in the returns. A remittance of 118 lbs. of gold was to have left the mines for Rio during the early, part of March. Gold report from the mines of Gongo Soce and Bananal from 1st to 13th February, 5 lbs. 6 cos. 12 dwts.

Despatches have been received by the Australian Mining Company, bringing reports from the Tungkillo Mine to 12th Jan. The estate had been surveyed, and is stated to contain a soil highly capable of profitable cultivation. The mine has been opened to a 50 fm. level, and the ore found to improve in quantity and quality in depth. The engine-house was being erected, and a substantial engine expected to be at work in May next. We refer to the accounts in another column.

The United Mexican Company's accounts from the mines continue of the same satisfactory character as those of the preceding months. The Mine of Rayas is described as more prosperous than for many months past, and the new mines progressing towards development.

The Linares letters are to the 16th inst., and continues to show the progress of the operations are being made for the transit of ore to England—of which they have about 100 tons.

The Worthing Mining Company have receive

By the India mail, we are advised that the metal markets of the East are generally in a very favourable position. The Bombay letters are to the 15th March, and represent an improvement in copper, lead, and tin plates. At Calcutta, a fair amount of business has been transacted, considering the season; and some large sales of lead have taken place.

HULL, THUREDAY.—The fall in shares has at length received a check, and we have the pleasure to report an improved market. An alteration has been made in the mode of settlement on the London Stock Exchange, which has long been wanted, and which we think will be productive of benefit. Hull and Selbys, 952. to 961.; halves, 477. to 477. 10s.

Contracts for Coals.—The Commissioners of the Admiralty will be ready, on the 30th inst., to receive tenders for delivering at Valperaiso and Callao, or at such intermediate port as may be directed, 1000 tons of Welsh coals for her Majesty's steam vessels; also, for delivery at Trinconnalee, 500 tons of Welsh coals for her Majesty's steam vessels. On the 7th May, for supplying the dock-yards, Admiralty, and marine offices, with the quantities of coals required. Coals for Revicton.—The East India Company will receive tenders, on the Mth inst., for 500 tons, to be delivered at Point de Galle, Caylon:—West Hartley, Carr's, Buddle's, Davison's, Hartlepool, Ravensworth's, Stewart's Wall's-End Steam Coal, and Glasgow Hard Splint—screened.

The contract entered into by the Peilinsular and Oriental Steam Navigation Company with the Government for the monthly conveyance of the mails, by steam-packet, from Southampton to the Cape of Good Hope, Ceylon, India, Australia, and New Zealand, is likely to cause a demand of coals for their different stations, until the extensive coal mines at the Cape, Borneo, &c., can be worked, for which purpose companies are being formed, which will ultimately lead to a rapid progress of steam navigation in those seas.

SOFT Pto LEAD.—The 300 tons of soft pig lead, advertised in last week's Fournal, to be sold at the Clarendon Rooms, Liverpool, on Wednesday, were offered by public auction; but, as the highest bid made was 17L 12s. 6d. for the first lot of 50 tons, the whole was withdrawn.

THAMES TUNNEL COMPANY

number of passengers who passed through the Tunnel in the week ending April 13, was—No. of passengers, 16,226.—Amount of money, £67 12s. 2d.

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PRICES OF S	INING SHARES.
BRITISH MINES.	BRITISH MINES-continued.
Shares. Company. Paid. Price 1000 Abergwessin	BRITISH MINES—coatinated. Sharea. Company. Paid. Price 128 South Caration 5 20 20 21 218 South Caration 5 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20
1024 Alfred Consols 81 324	1100 South Dolcoath 4 4
	256 South Molton 7 12
1624 Balleswidden 9 14	1024 South Plain Wood 1 2
905 Barristown 54 4	256 South Tolgus 16 150 11
1624 Balleswidden	256 South Trelawny 284 10
sono Degiola al	256 South Wheat Basset 101 255
5000 Black Craig & Craigton 5	256 South Wh. Josiah 2 34
8000 Binenavon 50 10	10000 Southern& Western, Irish 24 4
1380 Birel: Tor & Vitifer 104	256 South Wh. Josiah 2 3 10000 Southern&Western, Frish 24 4 280 Spearne Moor 30 40 128 Spearne Moor 30 40 128 Spearne Consols 10 6 6 6 6 6 6 6 6 6
5000 Bodinin Moor Consols . 1 . 3	256 St. Aubyn and Grylls. 21 3
100 Botallack 70	128 St. Michael Penkivel . 5 . 10
120 Brewer	1000 Stray Park
- Ditto ditto, scrip 10 10	9600 Tamar Consols 3 44
107 Budnick Consols 524 12	1024 Tavy Consols 82. 2 4
260 Butterden 1 2 3	6000 Tincroft 7 131 13
1000 Camborne Consols 7 3	240 Tolcarne 8 18 20 1
2400 Bryn-Arian 2 3 4 4 107 Budnick Consols 524 12 260 Butterdon 1 2 3 1000 Callington 22 5 5 1000 Camborise Consols 7 3 20000 Cameron's Steam Coal 7 205 Caradon Mines 224 10 256 Caradon United 24 5 8 1000 Cameron 24 5 8	1024 Tavy Consols 84 2 4 6 6000 Timeroft 7 - 134 15 5 76 Kenthury 170 10 240 Tolearne 8 18 20 3 6 6000 Tregeare 1 256 Tregorden 34 7 8 256 Trefutne 14 - 30 3 3 6000 Trelight Consols 6 2 2 4 2 0 7 Trelyon Consols 2 20 2 0 7 Trelyon Consols 2 2 2 2 2 0 7 Trelyon Consols 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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1000 Carn Brea 15 115 12	0 2000 Trenance 3
113 Charlestown220 —	96 Tresavean 10 95
128 Comfort 45 50	1000 Trenaut Lime Quarries 2
256 Condurrow 20 120	5 512 Trethey Copper 2 2 21
57z Cargdon Wi. Hooper. 5½ - 4½ 1000 Carn Brea . 15 115 12 1000 Carthew Consols . 14 - 7 113 Charlestown . 220 - 7 113 Charlestown . 5½ - 4½ 128 Comfort . 45 - 50 256 Condurrow . 20 120 2560 Cook's Kitchea . 14 - 7% 8 1000 Combe Valley Quary 5 - 7 1000 Copper Bettom . 7½ - 900 Couré Granca . 9 - 10	512 Treville (Lewanick) 4 5 1000 Tyllwyd
900 Copper Bettom 71 9 10	200 United Mines 50 150 16 256 Weilington Mines 25 35
212 Craddock Moor 231 5	128 West Buller 10 425
900 Court Grange 12	128 West Buller 10 425 256 West Caradon
1000 Cwm Erfin 4 34 4	1024 West Par Consols 5
1000 Daren 2 . 7 72 7100 Derwent 10	2500 West Polgooth 5 61 Ditto Notes 2 21
1024 Devon Great Consols 1 225	Ditto Notes 2 24 512 West Providence 9164 22 300 West Seton 45 180
	120 West Trethellan 5 20
1000 Dhurode	256 West Wh. Frieudship. 9 8
0000 Durham County Coal 45 9	3845 West Wheal Jewel 12 24 3
2500 East Birch Tor 3 3	1024 West Wheal Treasury 7 64 7
1024 East Buller 2 5‡ 6	1024 West Wheal Virgin
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128 East Pool 15 60 5 73	5000 Wicklow Copper and 3 34 3
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2500 Elast Birch Tor 3 3 3 1024 East Builtor 2 5 5 6 2048 Elast Crowndale 7 4 14 256 East Godolphin 104 1 14 4000 East Godolphin 104 1 14 4000 East Godolphin 104 1 15 4000 East Tomar Consols 1 1 1 1 1 1 286 East Togus 1 1 1 1 1 1 286 East Togus 1 1 2 1 1 29 1 East Wheal Crofty 1 25 6 256 East Wheal Crofty 1 25 6 256 East Wheal Ston 2 4 2 2 256 East Wheal Ston 2 2 2 2 256 East Wheal Ston 5 4 4 5 5 0 256 East Wheal Ston 5 1 1 1 1 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1000 Wheal Agar 6 256 Wheal Albert 10 28 25 240 Wheal Anderton 28
94 East Wheal Rose 50 450 500	128 Wheat Ann 504
256 East Wheal Seton 21 21	125 Wisel Anna Maria 7
- East of Scotland Iron Co. 5 11	120 Wheal Bai 5‡ 12 256 Wheal Benny 14‡ 2
1280 Esgair Lies	2324 Wheal Galstock 9 10
1024 Freidd Liwydd Mines 14 34	252 Wheat Carstock
256 Garras	182 Wheal Elizabeth 9 40 50
1000 cen.Mining Co.for frei. 1	256 Wheat Fortescue 15 100 Wheat Friendly 70 664 388 Wheat Franco 27 10 11
128 Goonvrea 4 2	388 Wheat Franco 27 10 11
256 Grambler & St. Aubyn 80 10 12	1000 Wheal Grose 3s 51 100 Wheal Henry 35 45
0000 Growa Slate Company . 5 5 1026 Gustavus Mines 3 3 3 4 256 Hawkmoor 124 70	1024 Wheal Lawrence 32 32 112 Wheal Margaret 79 190 512 Wheal Mary Am 5 39 40
256 Hawkmoor 12‡ 70 1000 Heighston Down Con 243 3½ 4	512 Wheal Mary Am 5 39 40
500 Hennock Silver-Lead 21s 5	512 Wheal Mary Am 5 39 40 5000 Wheal May 25 5 5 3000 Wheal Peuhale 6 6 910 Wheal Peuhale 910 Wheale 9
512 Herodsfoot 16 141 15 1	
000 Hibernian 124 15	
200 Koswick 10., 9.2	198 Wheal Seton107 240 50 1056 Wheal Sarah 41 7
727 Kirkendbrightshiru 84 5 54	1050 Wheai Sarain
018 Lamherooe Wh. Maria 9 - 41 252 Lanarth Consols - 7 8 256 Lelunt Consols - 47 25 26	128 Wheal St. Ann 30 35
256 Lelant Consols 47 25 26 160 Levant 175	260 Wheal Trelawny 72 90 921 95
160 Levant	256 Wh.Tremaine(St.Ervan) 94 24
000 Llwynmalees 9 10	267 Wheal Tryphens 40 624
500 Llynvi Iron 50 50 252 Lostwithiel Consols 23 10	
262 Lostwithiel Consols 23 10 260 Marke Valley 10 2 1 260 Mendip Hills 32 3 32	and the tree (retrievel) ages ag
28 Metha	184 Wheal Vyvyan 60
000 Mining Co. of Ireland 7 5	FOREIGN MINES.
24 North Buller 12 22 23 4 100 North Pool 45 500 40 North Itoskear 52 150	5000 Alten Mining Company 14422 22 15000 Asturian Mining Co 15
40 North Roskear 54 150 162 North Wh. Leisure 14 2	20000 Australian 4 41 42
12 North Wheal Vor 24	10000 Brazilian Luperial 23
28 Par Consols 551 650	12000 Cobre Copper Co 40 32
26 Pendarves Consols 2 64 000 Pendarves & St. Aubyn. 4 4	10000 Asstralian
00 Pendarves & St. Aubyn. 4 4 48 Pengelly Tin	4000 Guadalcanal 5 1 2000 Ditto Preferential 21 2
00 Panybunk and Erglodd 4 5	5000 Kinzigthal Mining Ass. 2 3
24 Penzance Cousols	5051 Mexican Company 594
12 Plymonth Wh. Yeoland 61 6	5000 National Brazilian 30 4
00 Rhoswiddol&Bacheiddon10 10	104000 N. Brit. Australasian 1 82 7000 Royal Santiago 10 11 112
00 Ditto New 7 64	11000 St. John del Rey 15 141 15
48 Runnaford Coombe Tin 12 21 1	7000 Royal Santhago 1011 112 11000 St. John del Rey 15142 15 43174 United Mexican L. Av. 284 62 72 72 10,000 Worthing (S. A.) 2 22 thers, furnishing us with corrections—our
.* We should feel obliged by agents, or o	thers, furnishing us with corrections —our st of prices as can be obt ined.
object being to present as correct a li	st of prices as can be obtained.

RAILWAY TRAFFIC RETURNS.

Names of Rallways.		11849	tual cost.	p. share			1 1849
Aberdeen	72	16	1,000,547	102	-	£1042	£146
Belfast and Ballymena		374	491,159	17	5	527	
Birkenhead, Lancashire, & Chesh.		15	960,653	182	5	929	
Bolton, Blackburn, & West Yorksh.		14	968,112	04	-	411	458
Bristol and Exeter		784	2,924,661	651 61	31	4208	
Caledoniau	160	141	5,149,320	74	3	8860	5210
Cuester and Holyhead	944	81	3,581,587	64	4	2371	1377
Dablin and Drogheda		354	778,565	25 6	-	910	733
Dublin and Kingstown	71	75	349,736	-	6	734	767
Dundee, Perth, & Aberdeen June.	474	47	179,775	71 8	3	546	528
East Anglian (Lynn to Ely)	67	67	1,308,194	14	-	699	666
East Lancashire		75	3,192,759	74	5	2830	2678
Eastern Counties and Norfolk	322	322	43,139,156	61 7	-	15182	13910
Eastern Union	95	50	1,782,7-2	44	-	2102	1324
Edinburgh and Glasgow	89	684	2,644,378	26)	4	4000	3810
Edinburgh and Northern	70	70	2,024,082	51 1	2	2144	1935
Glasgow, Paisley, and Ayr	109	74	1,996,201	45 6	3	2869	2712
Glasgow, Palsley, & Greenock	23	23	866,074	11 #	24	997	925
Gt. Northern & East Lincolnshire	143	1110	5,406,157	54 4	5	3233	1989
Gt. Sonthern & Western, Ireland	1884	1104	3,890,228	26	61	5033	3743
Great Western	230	2061	13,189,565	514	4	17373	20018
Lancaster and Carlisle	90	90	1,476,808	52 1	4	3333	2223
Lancashire and Yorkshire	224	1964	10,818,478	334	3	11892	12240
Liverpool, Crosby, & Southport	13	-	84,450	81	-	110	110
London and North Western	4784	428	25,286,876	102	5	43708	40818
London and Blackwall	5	14	1,363,529		1-12	756	681
London, Brighton, & South Coast	1714	1624	7,103,102	78	44	10254	9565
London and South-Western	242	194	7,490,688	58	31	9509	9469
Londonderry and Enniskillen	144	144	171,026	16	-1	162	158
Manchester, Sheffield, & Lincolnsh.	160#	944	2,078,135	11	5	4964	3406
Midland Company	4924	463	14,042,340	321	541	20989	20456
Midland Great Western (Irish)	50-	36	362,978	26	41	1411	1367
Monklands	36	-	486,245		6	734	-
North British	135	110	2,800,747	64	9	3100	2798
Scottish Central	454	454	1,448,969	104	5	1331	1054
Scottish Midland Junction	344	32	571,877	74	-1	400	279
Shrewsbury and Chester	48	48	1,161,840	74.8		1335	1466
Shropshire Union	30	=-		28	-1	438	1000
South Devon	572	574	1,951,933	44	5	1835	1769
South-Eastern	234	165		28 134	31	10676	9016
Taff Vale	38	38	907,398		6	2404	2028
Ulster	36	36	675,000	452	-	808	870
West Cornwall	13	13 1	209,386	94	7	276	279
Whitehaven Junction	2901	19	171,962			182	197
York, Newcastle, & Berwick			5,251,999		44		11551
York and North Midlend	260	260	4,875,682	144	- 1	7087	6697

THE GOVERNOR AND COMPANY OF COPPER MINERS IN ENGLAND v. FOX AND OTHERS.—In the Court of Queen's Bench, on Wednesday, Sir F. Thesiger obtained a rule to above cause why there should not be a new trial in this case (which was tried before Mr. Justice Coleridge, at the last sittings at Guildhall, and in which a verdict was found for the plaintiffs for 5511. 2a.), on the ground of misdirection. He made the application upon a point which was reserved at the trial, with regard to the right of the plaintiffs, who are a corporation, to sue on an executionary contract not under seal. The plaintiffs were incorporated under a charter in the reign of William and Mary, and the charter recited that there were, at that time, great quantities of copper ore found in divers parts of the kingdom, which, for want of skifful artisans to prove the same, were totally neglected and unimproved, and that certain persons had found out several inventions for smelting and refining copper ore. The plaintiff were incorporated for the purpose of smelting and refining copper ore. The plaintiff were incorporated for the purpose of smelting and refining copper ore. The plaintiff were incorporated for the purpose of smelting and refining copper ore. The plaintiff failing in that, the time of delivery was enlarged by consent, till the 1st September following. The learned judge, at the trial, was of opinion that the agreement was a substitution of the original one. He (Sir F. Thesiger) contented that the contract on which the action was brought was not one which was incident to the purposes for which the plaintiffs were incorporated. They were incorporated for smelting and refining copper ore, and this was a contract for furnishing iron rails, which was clearly not within the object for which the society was incorporated.

Army Al Of Foregor Ore at Swanska.—The Juanita, a Spanish ressel, intringing 110 tons of copper ore forms had contract on contract.

Array Al. or Foreiron Ore at Swanska.—The Juanita, a Spanish vessel, bringing 110 tons of copper ore from Spain, consigned to Messrs. Williams, Foster, and Co.; the barque, Edward Robinson, of London, bringing 476 tons of copper ore from Cuba, consigned to Messrs. Bath and Son; and the barque, Mary Ridley, bringing 520 tons of copper ore from Cuba, for the Cobre Company; the Medium, from Chili, with 240 tons of copper regulus, for Messrs. Bath and Son.—Cambrian.

LEAD ORES.

TICKETINGS FOR ABOUT 90 TONS FOXDALE LEAD ORE.

			-	_	_
Bidders.	Price	per	Ton		_
Sims, Willyams, Neville, and Co Llanelly (purchasers)	. £13	1	6		
J. H. Meredith, trustee of the late J. T. Treffry-Fowey Con		0	6		
Combmartin Smelting Company - Barnstaple	. 19	0	6		
Tamar Smelting Company—Beeralston	. 12	9	6	90	
T. somers-Bristol	. 11	11	6		
Walker, Parker, and Co Dee Bank	. 13	1	0		
Mather and Co.—Bagilit	. 12	6	0		
Pontifex and Wood-Newcastle	. 13	3	0		

Sold at Bagillt, on the 17th of April. | Sold at the Mine. | East Wheal Rose | Sold at the Mine. | East Wheal Rose | 73 | £15 12 6 | Tarsar Company. | ditto | 57 | 15 0 0 | T. Somers. | Company. | Company

*** The 300 tons of pig-lead, offered by auction on the 17th inst., at Liverpool, Messrs. Mather, were bought in; and as the price bid was such as, it was suppose Messrs. M. would not refuse, it was concluded by parties present that their (Messrs. M advices from America by the steamer the day before, were of a more satisfactory natuthan they anticipated.

BLACK TIN.

Mine.		18.		Prio			Purchaser.
Lewis							
ditto	1	*****	39	0	0	••••	Bolitho Company.

COPPER ORES.

Sampled April 3, and Sold at Andrew's Hotel, Redruth, April 18.

Mines.	The	18.	P	rice.	Mines. Tons. Price.
Devon Gt. Cons. 7 Wh. Josiah		£	6 3	6	West Caradon 104 £ 5 10 6 ditto 90 12 5 6
ditto	97	****	6 3	6	ditto 66 6 9 0
ditto	95		7 10	6	ditto 36 4 10 0
ditto	82		5 18	6	Fowey Consols 7 18 0
ditto	69		6 16	6	ditto 84 6 3 0
ditto	61	'	7 6	6	ditto 59 4 8 0
ditto	56	****	4 9	0	ditto 56 2 7 6
ditto	55	****	6 1	0	Marke Valley 81 2 17 0
Wh. Fanny	.106		4 19	6	ditto 76 2 17 0
ditto	86	!	6 1	0	ditto 75 2 15 0
ditto	78		5 6	6	ditto 27 2 0 6
ditto	74		7 9	6	Wh. Friendship 73 8 4 . 6
ditto	65	(5 16	6	ditto 68 8 3 0
ditto	60		6 5	. 6	ditto 67 8 8 6
ditto	58	6	1 15	0	Holmbush 126 4 12 6
ditto	43	2	18	6	Bedford United 121 6 2 6
Wh. Maria	75	6	1	6	Phoenix Mines 53 12 8 6
ditto	72	6	15	0 1	ditto 44 19 7 0
ditto	54	5	6	6	Wh. Pink 47 3 16 6
Wh. Anna Mark	1 71	**** 8	14	6	Creeg Braws 9 4 7 6
ditto	42	6	9	0	Wh. Harmony 5 5 1 6

		OIN	I CE	RODUCE.						
Devon Gt. Cons.		0		Wh. Friendship	208	· · · · £	1719	3	0	
Wh. Josiah				Holmbush	126		582		0	
Wh. Maria > 1500.	£94	37 6	6	Bedford United	121		741	2	6	
Wh. Fanny				Phœnix Mines	97	****	1188	13	6	
Wh. Anna Maria				Wh. Pink	47		179		6	
West Caradon 296		71 8	9	Creeg Braws	9		39	7	6	
Fowey Consols 290	163	8 2	0	Wh. Harmony	5		25	7	6 .	
Marka Valley 950	70	19 7	6						-	

COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Tons.	Amount.
Mines Royal	185£	1310 19 9
Vivian and Sons	464	3349 15 6
Freeman and Co		2131 5 3
Grenfell and Sons	666	3700 16 6
Sims, Willyams, and Co	388	2639 2 9
Williams, Foster, and Co	747	4753 8 0
Schneider and Co	134	735 12 9
Total tone	8050 - 21	0 601 0 6

Copper ores for sale on Thursday next, at Andrew's Hotel, Redruth.—Mines and Parcels—United Mines 1225—Par Cousols 289—South Caradon 234—Wheal Comfort 201—Treleigh Consols 97—West Wh. Jewel 77—Tresayean 68—West Trethellan 40—Richard's Ore 10—Wheal Union 4—Wheal Gewans 1.—Total, 2246 tons.

Copper ores for sale on Thursday week, at Tyack's Hotel, Camborne.—Mines and Parcels.—North Roskoar 683—North Pool 561—Thuroft 554—Consolidated Mines 545—Wheal Stone 288—Fowey Consols 244—Wheal Basset 220—South Wheal Frances 208—Copper Bottom 31—Wheal Clifford 19.—Total, 3350 tons.

COPPER ORES

At SWANSEA, for sale April 25.—Cobre 94, ditto 91, ditto 72, ditto 56, ditto 54, ditto 52, ditto 50, ditto 11, ditto 100, ditto 96, ditto 89, ditto 71, ditto 70, ditto 38, ditto 7, ditto 82, ditto 48, ditto 15, ditto 12.—Bearhaven 122, ditto 129, ditto 101, ditto 100, ditto 65.— Knockmahon 71, ditto 40.—Sand Ore 40, ditto 40, ditto 23.—Glasgow Sieg 75.—Gulddord Siag 71.—Spanish 45, ditto 23.—Aberdovey 17, ditto 6.—Gartnadyne 21—Lackamore 21 Burra Burra 3.—Total, 3143 tons.

MINING APPOINTMENTS DURING THE MONTH.

- 22. Par Consols sampling.
 24. Carn Brea and other mines sampling.
 25. Ticketing at Redruth-United, Caradon, and other mines.
 26. North Pool and Tincroft pay. East Crofty setting.
 27. Pay-day at Tresswean, Trethelian, Tywarnhayle, Fowey Consols, Treviakey, Condurrow, Marry, West Seton, North Roskear, and South Frances; and Levant tribute pay. bute pay.

 30. North Pool account—on the mine.

ACCIDENTS-(Continued). Brierly Hill.—T. Roberts was killed, at Dudley Wood Colliery, by a fall of coal.

Merthyr.—A man was seriously injured in one of the Penydarran pits, by a fall of coal.

Durham.—As J. Kelly was employed carrying coal to the coke owns, he fell off the inline, and the empty tub fell on his head, and killed him on the spot.

The letter of Mr. Nasmyth, respecting the steam-hammer at Wolverton, shall appear in our next publication.

NOTICES TO CORRESPONDENTS

ASTURIAN MINESO COMPANY.—We have received several communications on the unfortunate results of the operations of this company, signed "An Unfortunate Holder".—
"A Victim"—"One of the Sufferers," Sec., and regret exceedingly that we can hold out no hopes, unless the directors and liquidators obtain sufficient funds in time to prevent legal proceedings being had recourse to in Spain for bills returned protested. It was highly desirable that this should have been prevented, for if once the Spanish creditors get possession of the property, it is a question if any thing will be realised by the unfortunate shareholders, after an outlay of 200,000. and upwards; and with the mines, maschinery, and materials, still worth to any company for working from 90,000. to 100,000. It is a melanchedy reflection, that in the present position of the works a outlay of 2000. would realise a return of at least 10,000. per amum on the manufacture of 100 and 100

mot take away the Hablity of holders of anch shares under the Winding-up. Act; and many who have flattered themselves woefully mistaken. We refer to our report of the meeting, and some remarks, in autother column.

Weels, and some of the marks, in autother column.

Weels, and some of the marks, in autother column.

Weels, Samson.—We have received several communications allusive to the remarks on this adventure which appeared in last week's Journal; but the claims on our space prevents us taking more than a sight notice of the subject. The letters of Mr. F. S. Thomas enter fully into the questioned connexton of Mr. P. N. Johason with the nine; and, from a note we have seen, which has been written by the latter gentleman during the past week, it appears certain that, though the matter had passed from his recollection, Mr. P. N. Johnson was consulted respecting Wheal Samson by Mr. F. S. Thomas and Sergean: Halcombe, and, that he designated it as "a most interest in. We state this much in fairness to the parties concerned, but all future reference to the dispute must be through our advertising columns. The legitimate reports from the mining captains, of course, will find ready insertion among our Mining Correspondence.

THE STRAN-HAMES AT WOLVERTON.—Size: I was a little amused on reading in your last week's Journal the notice of the steam-hammer at Wolverton, and shall feel obliged if the "Ballast Engine Cleaner" can say if the extra large locomotive engine made there cost any thing over 30004. P. and also, if the company's books show what it really did cost? And, farther, if the said-gaige has yet strunk in its unwieldy sides, so as to be able to pass by the platforms of the various stations? And still further, if it has yet become light enough to run on the line without deflecting the rails to a dangerous and injurious amount? And, issely, is it likely to be over of any use to the company; and if on, when T-Englessen and the platform of the Committee of the House of Commons, 1845; on Lord Ashloy's Bills for the P

Adventurer " (Tavistock), -- We shall be glad to receive the information. Mining wa is always acceptable.

news is always acceptable.

TAYN Consols.—Sin: As a constant reader of your valuable Journal, and a shareholder in the Tayy Consols. In must acquaint you that your quotation as to the amount paid per share in that undertaking is incorrect. Instead of 62 paid, it should be 52 (for that is about the outlay to the original shareholders); and for months you have quoted the selling price at 13. This, too, must be incorrect, for very few, if any, sales have taken place for some time. Now, from the late accounts I have seen of the great improvement in the prospects of this mine, the absence of further calls, and the possession of valuable machinery for the due working of the mine, is should think the shares are at least worth some 41. or 54. each in the market, if any were offering for sale; and, from every appearance, they will soon be worth a deal more.—A Shareholder: April 15.

every appearance, they will soon be worth a deal more.—A Shareholder: April 15.

Creadow Coffee Mines.—Sir: In the Notices to Coffeespondents, in last Saturday's

Jeurnal, I observe allusion is made by "A Subscriber" to the closing up the affairs of
the Garndon Copper Company. The delay has taken place in consequence of the great
difficulty I have had in getting in the arrears of calls, as I think it would be very unfair
to those who have paid up all their calls, to pay the liabilities out of the proceeded of
the sale of the materials, and allow the defaulters to go free. Some of them have been
brought to the County Court by the merchants; the ramainder of them mily after which
I shall call a meeting of the shareholders, when a division will be made of the balance
In hand. I can assure "A Subscriber," that I am equally as anxious as himself to have
"B." (Newland).—The meeting will be fully reported in our columns. We are at all
times obliged for the transmission of information, and hope to hear from our correspondent frequently.

times obliged for the transmission of information, and hope to hear from our correspondent frequently.

"J. D." (Southwark).—Although the discovery of lodes under similar circumstances to those which attended the cutting of Grout's lode, in the 80 fm. level, at Thircott Mine, is certainly not of common occurrence, they are occasionally cut in depth, where not the slightest indications have presented themselves at surface, arising sometimes from a deep top soil rendering shoding difficult, or from the backs remaining undisturbed, and no stones lying about in the vicinity to give the idea of the existence of a lode. In the present instance no such lode was thought of. Chappel's lode has been worked for nearly a century; and to carry out the desire expressed by the directors to thoroughly explore the nine, a cross-cut was commenced almost at random, when, in 6 feet, a rich and productive lode was discovered, at least 7 feet wide, and worth 70.0 per fathom. In the 142 fathom level a cross-cut is being driven to intersect every lode in the soft; and whatever riches there may be in the mine, in addition to the present discoveries, there is liftle doubt but they will now be laid open. The mine may now be considered in a highly prosperous condition, there being, independently of Grout's lode, upwards of 90,000% worth of ore in sight, and there is no fear but this will continue a dividend-paying mine for many years to come.

A Reader."—We must decline publishing the statement—it, wend involve us in an end-less and unsatisfactory dispute. Consult an attorney with respect to your claims on the parties.

Adventurer in Tin Mines" (Throgmorton-street).—Whatever evils may exist in the

less and unsatisfactory dispute. Consult an attorney with respect to your claims of the parties.

"Adventurer in Tin Mines" (Throgmorton-street).—Whatever evils may exist in the mode of ticketing for the purchase of copper ores in Cornwall and Swansea, as also for lead at Holywell, Aberystwith, and other places in Wales, they are fairness and purity itself, compared with the custom which prevails among the tin smelters in parchasing black this from the mine agents. When notice is given to any particular house of a parcel of black tin for sale, the seller is told to bring it in, nor can he get a bidding by the exhibition of a fair sample. He knows not what price he shall obtain until he had delivered the bulk, and is, consequently, completely in the smelter's power; and if, after an application to one house, he should try another, he probably gets a less price than he would have obtained at the first. On a parcel of tin being obtained, the half-dozen houses are communicated with, and it is then arranged how it shall be divided, and what prices shall be ticketed; and on a reference to our tin returns, such as they are, in each week, the fare of this so-called ticketing is apparent. It was to escape this mode of purchase by the smelters at their own, prices, that the Tamar and Union Smelling Companies were established; and they have, undoubtedly, secured better prices to the mines with which the adventurers are connected than they before obtained, whilst a good return has been made on the extra capital camployed.

E. E. A. "(Greenwich).—We published, in our last Journal, such information respecting the proposed railway bridge at Cologne as we deemed of public interest; but additional particulars can be obtained on application to the Prussian Consul, 106, Fencharch-street.

"A. W." (Leith).—Refer to Mr. John Barclay's "Statistics of the Iron Trade," which appeared in the Mining Journal of the 2d February last.

4 F. M." (Redruti).—We are obliged for the information, and shall be glad to hear fro

Our correspondent requently.

Wheat Lawspord.—Mr. Molyneux, the secretary, informs us that a great number of shares have changed hands during the week at 31 per share. The adventurers (he states) may congratulate themselves on the success of this undertaking; having, with an outlay of less than 1061, raised sliver ore of the value of 10001, with every prospec of considerable quantities; having also a copper lode 6 feet big, saving work, only at the 16 fathous level.

W. L." (Bristol).—The table of "Railway Traffic Returns" was omitted in the Mining Journal of the date mentioned, from an influx of pressing matter just before publica-

non. The returns for the week ending the 31st March, and which should have appeared in our Journal on the 6th inst.—on the Great Western line were 14,1784. 0s. 4d.; and the Bristol and Exeter, 38884. 18s. 1d.—together 18,0671.

"J. R." (Gateshead).—The Report of the Commissioners for Enquiring into the Application of Iron for Railway Purposss, was printed for the Commissioners of Railways, by W. Clowes and Sons, of Stamford-street, Blackfriars, to whom application had better be made.

*C. R."—The insertion of the communication is hardly requisite—the errain not altering the sense of the letter, and being such as must occur in the necessarily hasty printing

the sense of the letter, and being such as must occase the sense of the letter, and being such as investigation of a newspaper.

"F. W. B." (Bristol).—The subject has already been one of prominent comment in the Missing Journal, and will be again referred to at the proper time.

Several letters have been addressed to our office for Mr. Evan Hopkins, but that gentleman being in Cornwall—inspecting some mines in St. Austell, Redruth, Camborne, &c.—a delay must necessarily arise in their contents being attended to. On his return to London they will be handed to him.

Geod Bal makes a Good Cap'n," and the letter of "A Shareholder" (Rhayader), on the Gwm Erfin Mine, shall appear next week; also the letter of Mr. D. Mushet, "On Atent Law and Patent Right."

The letter respecting the Great Central Gas Consumers' Company, can only appear with the writer's name attached.

and Post-office orders made payable to Wm. Salmen Mansell, as acting for the proprietor MINING JOURNAL Railway and Commercial Sagette.

LONDON, APRIL 20, 1850.

The Mining Jouanne is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

We, this week, record another of those fearful calamities with which our readers are unfortunately too often conversant-a colliery explosion, by which no less than six men, in the very prime of life, have met with a fearful and instantaneous death. The circumstances attending this explosion are the more distressing, as it is tolerably evident that the immolation of the six was caused by the reckless conduct of one of them, Joseph Brunton, in taking the top off his lamp; and that had the whole acted upon the rules of the colliery, and remained at the bottom of the shaft until the return of the viewer, who also fell a victim from inspecting the workings, the lives of all would have been saved. This colliery, which was situate at Marsden, Lancashire, and is the property of Messrs. Saoar, Spencer, and Co., appears to have been conducted with the greatest care and attention to the preservation of the lives of the men. From the evidence of an intelligent pitman, Laurence Brotherron, it appeared that it was the regular custom for one or two persons to examine the pit every morning, and that it was a rule for all the other men to remain at the shaft until the return of the viewers, which rule, it appeared, they often broke with impunity. On the morning in question, witness and Steer, an underlooker, examined the pit—each taking a separate direction. The former had gone about 300 yards without meeting with any foul air, when he heard a loud report as of an explosion, felt the shock, and soon after a second report; he then returned to the shaft, where he found only one man (the elder Chadwicz), who had properly waited the result of the inspection, and thus saved his life. The state of the air prevented them going into the levels for some time; but eventually the bodies were found in different situations, from 250 to 360 yards from the shaft, and J. Brunton's lamp was found close to the corpse, with the top off; while all the other men's lamps were secure. He stated that several men had been discharged for taking the tops off their lamps, and that the proprietors were now determined to discharge every man who infringed the regulations made for their own safety. If there is any real safety in these lamps, they ought to be kept locked, as it is well known that colliers are s cumstances attending this explosion are the more distressing, as it so reckless a race, even when their own lives are in peril, that they ought never to be trusted, where means of safety can be otherwise secured.

The past week has been an eventful era in the history of the railway share market, as marked by a greater depression in price of the principal stocks than we have ever yet had the undesirable duty to record. The Great Western shares, on Tuesday last, changed hands at 46, the lowest price ever before quoted, which shares in August, 1845, were sold at 226; while the London and North-Western, Eastern Counties, South-Western, South-Eastern, and, in fact, shares in all the principal companies, have been in an equally depressed condition. A most extraordinary circumstance in connection with this description of security is, that even the Indian lines, with 5-per cent, guaranteed by the East India Company, can scarcely find purchasers at a trifle above par; while India bonds, paying but 3½ per cent., are 4½ premium, the interest on which is at any time liable to be reduced. With a population increasing at the rate of nearly 500,000 a year, or 1800 a day, provisions cheap, a rapid increase in the development of trade and commerce, and with every element which we can imagine necessary for the progressive increase of traffic and improvement of railway property in full operation, for months the fall has gone steadily on, nor is it possible for the most foresighted to foretel whether the lowest ebb has yet been reached or not. In this spirit-depressing, and, in fact, extraordinory state of railway affairs, neither directors or shareholders appear to have the slighest idea where to seek a remedy. The former, by allowing the most unreserved inspection of accounts, and other acts, may endeavour to inspire confidence, and the latter may afford it; but there appears an incubus riding on the shoulders of railway property as an investment, the nature of which is beyond the power of either party to discover.

In such a period of despondency, when forced sales of railway property are carrying broken hearts and absolute ruin into many a home, we are glad to observe that a pamphlet has just appeared from the pen of Mr. Adams is known as an ingenious mechanical inventor, manifacturer, and patennee, and as the author of more than one work besides the present sour the principal stocks than we have ever yet had the undesirable duty to record. The Great Western shares, on Tuesday last, changed hands at 46, the lowest price ever before quoted, which shares in

ing the new stock, it is everywhere apparent that, until some fundamental change takes place in the entire principle of railway propulsion, profits must continually decrease, dividends diminish, and the whole system gradually descend the stream to an ocean of bankruptey and ruin.

The plan for re-constituting the ASTURIAN MINING COMPANY, which we have recently considered as the sole measure for saving the property of the shareholders, is for the present shelved. Mr. Moore frankly confessed, at the meeting on Tuesday last (the report of which we give to-day), that he had failed in obtaining a sufficient support to justify the expectation that a new deed would be executed by anything like a competent majority of the shareholders, to give weight to an application to the Spanish Government. It was stated, that only 5000 shares out of 9500 had responded to the

call, which appears to be the test of adhesion to the project. In the opinion of Mr. Moore, this failure involved the necessity of winding up the affairs, and selling the property of the company to the best advantage; and, for the purpose of obtaining funds to meet the debts until that could be satisfactorily effected, he pointed to the Court of Chancery as the most effective authority for enforcing the contributions. It was natural enough, that with such a statement before them, the shareholders attending the meeting should listen favourably to any one who hold out other hopes. Mr. Gillan came forward with promises, which presented ostensibly the means of escape from the difficulty which his adversary regarded as incapable of any solution but one.

These new proposals were received with the usual anxiety of despair which, in such cases, drives men to adopt anything which will defer the consideration of their worst fears. The re-constitution was postponed on the representation that, if the company were not re-constituted, Celonel Birss would come forward to support the board; whilst Mr. Gillan, as representing that proprietor, and, as we understood, a large number of the other proprietors, who had not paid the call, was installed in the direction to give effect to the views which received the tacit sanction of the meeting. We cannot admit that those views vince a correct knowledge of the materials upon which he has to work. Such as they are, a short time will suffice to test their intrinsic value. He proposes to re-establish the Asturian Mining Company under a new and respectable direction, cancelling the decree by the influence of our new ambassador, Lord How-DES, and certain other aids—a proceeding which Mr. Moone most streamouly insisted was impracticable, having already ascertained the fact. We shall say nothing further upon this, save that it appears to us a re-constitution under a worse form; and, if Colonel Birs objects to one mode, he surely will not approve another. Then, for the purpose of raising fur

FOREIGN INTELLIGENCE.

The Niegara has arrived, bringing twelve days' later intelli-he United States and the British North American provinces.

The Hon. T. Butler King has laid before the Government his long looked-for Report on California and the Gold Regions generally of the Pacific Coast. It occupied nearly three hours reading, and in general gave a very glowing picture of untoid and undreamed-of treasures, dwelling emphatically on the immense wealth anticipated from mining the quartz rocks in the mountains, wast bodies of which are said to be filled with veins and clefts of pure gold.

vast bodies of which are said to be filled with veins and clefts of pure gold.

Another dreadful steam-boat accident occurred between Buffalo and Niagara. The boiler of the Troy exploded, when nearly 20 persons were scalded to death or drowned, and about the same number were seriously wounded.

An important discovery is said to have been made in Oregon, which, in consequence of the great increase of commerce between that place and San Francisco, will have a material influence on trade. A new and fine entrance to the mouth of the Columbia river had been discovered by accident. The Southern Pass, as it is called, has hitherto been deemed impracticable; but two vessels, it seems, had passed through it into the open sea, and the least water found was about six fathoms. It was intended to be immediately surveyed.

The annual depreciation in the value of New England railroads is assertained.

The annual depreciation in the value of New England railroads is ascertained to be about 14 per cent. on their cost. This is found to be nearly the same on a new as on an old road. It includes bridges, fences, sleepers, rails, stations, engines, and carriages.

Operations on the Panama Railroad had been partially suspended, in con-sequence of the intense heat and fever amongst the labourers; but the work would be removed to another portion of the line, and native labour made available.

Operations on the Panama Railroad been partially suspended, in consequence of the intense heat and fever amongst the labourers; but the work would be removed to another portion of the line, and native labour made available.

SOUTH AUSTRALIA.—We have received Adelaide papers to the 15th Dec., from which we extract the following items of news:—

WHEAL MARIA.—A meeting of adventurers was held at the Norfolk Arms, on the 5th December,—Robert Frew, Esq., in the chair.—A report from Capt. Lean was presented, which speaks most favourably of the workings; but mentions that they are partially suspended, from the inflax of water; it was generally considered desirable that a whim should be at once provided to remove the difficulty. After some conversation, it was determined that one of the disrectors should be a resident at Mount Barker, for the purpose of ensuring correct and frequent information, and also for the convenience of country adventurers. The rules framed at the last meeting were considered, and, with some revisions, adopted. Messrs. W. B. Dawes (resident), Joel Roberts, John Colton, and Daniel Fisher, were elected directors, in the room of Massrs. Le Vance, Santo, Hornabrook, and Harood, resigned.

New Corpers Mine, were sected directors, in the room of Massrs. Le Vance, Santo, Hornabrook, and Harood, resigned.

New Corpers Mine, were specifing a new mine discovered about three years since in the Barossa Ranges, by a shepherd of Mr. Angas, and now pronounced by several mining captains to be of immense value. The secret was well kept, and when a survey and sale were applied for, Mr. Trewartha, the Government surveyor, failed to discover the indications. The fact, they are nearly all concealed by a shepherd's but and a sheep-yard. The indications, we hear, are in the direct line of the Burra Burra and Reedy Creek. The property, which consists of two sections, has been valued at 14,000l. A company has been formed with 1400 shares of 10l. each, and nearly the whole of those offered for sale have been purchased. M

SILVER IN SPAIN.—Recent letters from Madrid state that the lately discovered lead wines in the provinces of Grenada and the Guadalajara are described vered lead mines in the provinces of Grenada and the Guadalajara are described as abounding in aliver, of which 2000 lbs weight are received monthly at the Mint in Madrid, and are immediately coined into dollars. From St. Peteraburg, we learn that the number of mines worked in Altai is

80, and in East Siberia 64

NORTH BRITISH AUSTRALASIAN COMPANY.—This company is about to issue an abstract of the balance-sheet, made up to the 50th June last, which was lately received from the colony. By the latest accounts, the smelting operations at Kawaw were still conducted on a system so unsatisfactory, that the produce of the furnaces continued to be very poor. Mr. Elder, jun., who holds a third of the Bon-Accord, has just come house, and gives an account of the prospects of that mine by no means so sanguine as that apparently entertained by others in this country.

by others in this country.

Jamaica Minz, Mold, Flintshire.—On Tuesday, the 9th inst, this company presented their agent and brother-shareholder, Mr. W. B. Dyer, with his fall life-size portrait, beautifully painted, in a superb gilt frame, "as a mark of gratitude for the very able, efficient, and profitable way in which he had conducted the said mine." About 16 of the shareholders and friends dined at the Black Lion Hotel on the occasion.

MERTHYR—TERMINATION OF THE STRIKE AT ABERDARE.—The whole of the colliers in the Aberdale Valley—or, rather, as many of them as the masters would take into employment—have signed the agreement, and returned to work

Via of the (Society Camno part of mile fr country 170 fee nigh regreat a in span semicir 55 feet about see combed on bed on bed on the control of the central series which che central series which che central series country was a clear series which che central series country was a clear series country was a clear series country was a clear series country series

months about 40 and Mr. during t numbers scenery: which we about 58

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HISTORY AND MANUFACTURE OF GUNPOWDER .-- No. 11.

That Genghis Khan, and other great Astatic enquerors, did not use gunpowder in sheir warlike enterprises, is no proof that it was not anciently employed in the east for that purpose. The awkward matchlock and rude and mis-shapen gun of the Hindoo, were listle calculated to bring it into favour. The bow was long preferred in England—down even so late as the reign of Elizabeth—owing to its lightness and portability; for after all the improvements that had at that time been adopted by the introduction of the Spanish musket, the soldier was sadly encumbered, hav-

and rude and manager game to late as the reign of Elizabeth—owing to its lightness and portability, for after all the improvements that had at that sime been adopted by the introduction of the Spanish musket, the soldier was sadly encumbered, harding the could not use the vapon, on accounts of the arrel of the meter, multiple carry, the unvioled weapon, bir rate (a stard shout as bright as a mark and the could not use the weapon, on accounts of its weight), his powder-flash, his touch-box, his leaders hag of bullets, his burning match, and the sword he required to defend himself, after discharging his piece. The Turks preferred the bow still longer, and it is the most in favour with the Chinese at the present day. The unskilled manner in which they were used abloaded to the natural reliceatace of mankind to receive new inventions. King James II. of Scotland was killed whiles superistending the working ignitied from some remains of the previous charge, a plug was forced out of the gan, that laid the unfortunate monarch dead on the spot. The previous charge, a plug was forced out of the gan, that laid the unfortunate monarch dead on the spot along the commencement of the 14th century, the celebrated freek fire was employed. Its composition is not known, but it is thought that maphths was one of the principal ingredients. It appears to have been a liquid, and, as a combustible compound, deserves a brief notice here. Gibbon is of opinion that it was first, prepared by the Grecks of Constantinople, and that from them the Saraceus acquired the secret of its manufacture. It was certainly employed at the sieges of that city in the 7th and 8th centuries, and the infludes employed it against the Crasader. Beckman says that Callinicus, an architect of Heliopolis (Balbec), who flourished under the Emperor Constantine Pogonaus about A.b. 678, was the inventor of it. The art of preparing it appears to have travelled cast-ward, it having been constant in the 10th century. It is additionable to the constant of the contract of

VIADUCT OVER THE RIVER AYR.—Mr. W. M'Candlish, resident engineer of the Glasgow and South- Western Railway, has furnished to the Royal Scottish Society of Arts a description of the Balochuyle Viaduct, which carries the Camnock extension of the Ayrshire Railway (which, on amalgamatien, becomes part of the Glasgow and South-Western Railway) over the River Ayr, about a mile from the village of Mauchline. In order to attain the summit of the country near Camnock, the line required to cross this river at an elevation of 170 feet above its bed. The river is about 100 feet wide, and runs between nigh rocky banks, which are used as abutments from which to apring the great arch. The viaduct consists of seven arches, the centre one being 180 ft. in span, and the three on either side of it being 50 feet in span each, and all semicircular in form. The arch-stones of the great arch are, on the outside, 55 feet deep at the springing, and 45 feet at the crown, but inside they are about a foot deeper. To give an idea of the magnitude of the viaduct, let it be compared with the Dean Bridge, near Edinburgh. If placed with the river bed on the same level as that of the Ayr, the roadway would stand 55 feet below that of the Ballochmyle Bridge, and the great arch of the latter would apan two arches of the former. Again if Lord Melville's monument in St. Andrew's-square were placed beneath the great arch, the head of the gatee would not reach the crown of the arch. The atone of which the bridge is built in a close-grained red freestone, and was obtained from quarries opened on either side of the river, being conveyed to the bridge along service railways, which conducted to a gangway eracted across the valley in connection with the centering. From this gangway they were reinoved to their position by means of travelling cranes stretching across the whole building. The centering advanced, and consisted of whole logs of mense, placed one above another, and properly connected at each stage with cross ties and diagonal braces, and well ing was erected in four stages, each stage being proceeded with as the building advanced, and consisted of whole logs of memel, placed one above another, and properly connected at each stage with cross ties and diagonal braces, and well secured by bolts, &c. The quantity of timber used was about 50,000 cubic feet, and of iron about 6 tons. The work was commenced in November, 1845, the great arch was keyed on 8th April, 1847, and the last stone was laid on 14th March, 1849; the building being completed within three years and four months from its commencement. The number of men employed averaged about 400; and, to the credit of Messrs. Ross and Mitchell, the contractors, and Mr. Fulton, their superintendent, not a single serious accident occurred during the execution of the work. During its progress it was visited by vast numbers of people from all parts of the country, attracted by the beauty of the Seenery and the grounds, as well as by the interest attached to the operations which were going forward. The quantity of stone used in the viaduct was about 580,000 cubic feet, and the total cost of the work was about 41,000f.

The iron bridge intended to cross the Shannon at Athlone, for the railway to Galway, will be commenced in a few days by the eminent house of Fox and Henderson, of Birmingham. The materials will be landed at our quaya, and conveyed by canal to Athlone. Over 1000 tone of iron will be used in this magnificent structure, which will be 700 feet in length. The Kish Bank Beacon will also be commenced in a few days, by Messrs. Fox and Henderson. This work is ordered by the Dublin Ballast Board, and to be placed on iron tubes, sank in the sand by Dr. Pott's patent pneumatic process for sinking piles in sand, shingle, bog, &c. This process will be used at Athlone for supporting the railway bridge across the Shannon.—Limerick Chronicle.

BOTARY ENGINES AND CANAL HAULAGE.

[Specification of paient granted to Corugilius Bonel, of Kenpaey, in the ceasity of Wor-coruge, neglineer, file certain improvements in rolary engities, to be worked by wisne, or other means; and also is the coastruction of certaings, vessels, or other vehicles, to be worked, or propelled, by this said improvements in rolary engines, or other motive-power and for the mechinery to be connected therewith. Patent dated Oct., 1850.]

This invention may be thus described :- Within a steam case, which may be either an ellipse or a circle, is a circular cylinder, placed eccentrically therein, being greater than half its diameter, and keyed to a hollow re-volving shaft. The circumferences of the steam case and the revolving cy-linder touch at a given point. Two rectangular pietons are provided,

therein, being greater than half its diameter, and keyed to a hollow revolving shaft. The circumferences of the steam case and the revolving cylinder touch at a given point. Two rectangular pistons are provided, aliding into and out of recesses, or chambers, in the cylinder; and two circular pistons, which, for distinction, are called plungers, are attached to the rectangular pistons. The plungers are acted upon by steam, or other elastic vapour or fluid, passing through the hollow shaft, which causes the ends of the rectangular pistons to come in contact with the interior surface of the steam case when steam is turned on, as hereinafter mentioned. The shaft passes through stuffling-boxes, a small pipe passing into the hollow part of the shaft, being connected by a stuffling-box, for the purpose of introducing steam, or other ageint, to expand the pistons.

With regard to the improvements in carriages, vessels, &c., a trough, or opening, is first formed, the sides of which are raised high enough, when used on water, to prevent the same flowing over them into the boat. In this well, or opening, one or more pairs of driving-wheels are mounted in suitable bearings one above another, and which, when set in motion by the said rotary engine, or other motive-power, draw in a flexible rail, or bar, made of metal, or any suitable material, laid down in the canal, river, or water, or on the rail, or other road, on which the boat, or vehicle, is used, which rail is made fast at the extreme ends, and may be of any form, as round, flat, square, or otherwise. The lower wheel revolves lossely on its shaft, and the upper whoel is keyed flust to its shaft, and revolves with it. The lower shaft can be drawn back through the side of the trough, or opening, through a stuffing-box, or it can be fixed under the bottom of the boat, or vehicle, frequired, so as to leave space to take up, or let down, the flexible rail, or warp.

With regard to the manner of using the said rotary engine—1. When the same is used as a steam, or motive en

IMPORTANT INFLUENCE OF RAILWAYS AND ELECTRIC TELEGRAPHS.—Great as has of late years been the strides of knowledge, and anxious as the majority of the population are for the acquirement of useful information, the immense influence which the rapid transit obtained by the railway system, and the instance of the population are provided and the influence of improved means of transport, enlightens as considerably on this subject, by fixing the attention on the changes in the habits and character of the population which have been brought about by it. He impresses on our minds that nothing facilitates and developes commercial relations so effectually as chesp and rapid means of intercommunication. When, therefore, all nations shall be found more intimately connected with each other by these means, they will inevitably multiply their exchanges, general commerce will undergo great extension, mutual interest will awaken moral aympathies, and lead to political alliances. After having for ages approached each other for purposes of amily and intelligence, and old antipathles, national and political, which have so long divided and ruined neighbouring states, will speedily vanish. As a striking illustration of the rapid transmission of intelligence by the combination of the various expedients which science has supplied, we take the career of a single morning newspaper. The proprietors are able to maintain agents for the transmission of intelligence from every principal city in Europe; these correspondents transmist to the centre of intelligence in London regular dispatches by the mails, and occasionally by courier; these are forwarded from Dover to London by special measured by courier; these are forwarded from Dover to London by special measured by courier; these are forwarded from Dover to London by special measured by courier; these are forwarded from Inducence is to be ascribed to the centre of intelligence and country. It is commonly estimated that the average number of copies of the most widely-dividualing journal in Lon IMPORTANT INFLUENCE OF RAILWAYS AND ELECTRIC TELEGRAPHS

metropolis and the provinces teem only in the course of a single week.

PREVENTION OF EXPLOSIONS IN STEAM-BOILERS.—In the Journal of the Franklin Institute, for February, there is a suggestion by Mr. A. C. Jones, C.E., for preventing explosions in steam-boilers. Having had long experience with the engines of the Musicial properties. Having had long experience with the engines of the Musicial properties. Having had long experience with the engines of the Musicial properties of the Musicial properties of the Musicial properties of a decidents happen through gross neglect, or ignorance; he, therefore, repudiates all nostrums, such as fusible alloys, floats, balance-valves, &c., and merely lays down a few rules to be carefully followed, which, during 25 years' practice, have prevented any accident to the engines under his charge. He advises—1. To carry the water as high as the boiler will allow, without working over into the cylinder.—2. Never increase the pressure of steam to overcome the loss of power by leaks in the joints, disarrangement of the valve gear, &c.—3. If, by any unforcesen cause, the water gets too low in the boiler, avoid pumping in water, or raising the safety-valve suddenly, or by any other menns disturbing the surface of the water, kept smooth by pressure; but damp the fire at once, and allow the boilers to cool down below their working temperature; if time is an object, now throw in a very small quantity of water, and note its effect on the safety-valve; if sufficient time has elapsed, the lever will get heavier; the pump may then be set to work, and a slow fire started, limiting the supply of water so as not to cool the boiler too soon. It is well known, by an experiment with an iron lade heated to redness, by throwing in water, it is not converted into steam until the iron has cooled down to 212°, when it instantly flashes into steam. If a boiler is in this condition, and sufficient water is suddenly thrown in, an explosion is inevitable.

Working Railway in Bellouem by Government.—The offici

WORKING RAILWAYS IN BELGIUM BY GOVERNMENT.—The official return of the State, which, in Belgium, constructed and works the railways, has just been published, of the financial state of these undertakings up to the 1st Jan., 1849. These returns show a sad falling off in the profits as interest on the capital expended; and, notwithstanding the numerous advantages which have attended the formation of railways in Belgium, they have ever been a heavy burthen on her treasury, and show a tendency, at no distant day, to be a dead weight on her resources. In 1847, the gross receipts were 14,649,098 fr.; working charges, 9,318,869 fr.; leaving a profit of 5,030,932 fr., giving an interest of 3 fr. 39 cents, per cent. on a capital of 160,181,878 fr.; while, on the 1st of January, 1849, the gross receipts were 12,107,744 fr., and the working charges 8,766,241 fr.; leaving a net profit of 3,041,502 fr., or 2 fr. 8 cents, per cent. on a capital of 160,570,268 fr. This is a specimen of the result of working by Government, in a country where, from its almost perfect level, with plenty of cheap coal and iron, railways only cost about 12,1822 per mile. Our English lines, with heavy outlay and extravagant management, have paid somewhat better than this.

Original Correspondence.

VOLTAIC COPPER ASSAY.

Sua,—This was intended for last week's paper (but not ready in time), in the hope that Capt. Prince, and, perhaps, others, might ed-operate in carrying forward the experiments, or suggest inconveniences, defects, or improvements. The object in view is, to get out all the copper free from other metal, in one flexible sheet, separable from the copper plate, for washing, and weighing entire and alone.

The following is my present APPARATUS:—

The plates lie flat, instead of hanging upright—the containing cell being a glass tumbler, flat bottom within, and 3 in. diameter. (Note 1.)

The inner cell, a glass cylinder, open at both ends, 2½ in. diameter; the bottom tied over with bladder, which divides the two plates.

The copper plate lies on the bottom of the containing cell (note 2), and is varnished on the back and edge (note 3), except one corner, which is bent a little down, to gather up the last particles from the solution; to favour which, the apparatus stands slightly inclined to that side—the higher corner being narrowed and turned up to join the conducting wire.

The positive plate is sheet-iron (note 4); lies parallel with the copper, and about one-eighth inch above the dividing bladder; both plates being kept clear of the bladder by triangles of glass rod, rather more than one-eighth inch thick. (Note 5.)

The Solution of Copper.—Of metal, 50 grains may be a convenient

THE SOLUTION OF COPPER.—Of metal, 50 grains may be a conven The Solution of Copper.—Of metal, 50 grains may be a convenient quantity (or of ore, or slag, as much as may contain 50 grains), which may be dissolved in ½ oz. of nitric acid (note 6), with ½ oz. of water, then mixed with about 80 grains of sulphuric acid (note 7), and evaporated to dryness. It may then be dissolved in 2 ozs. of water, containing about 70 grs. of sulphate of soda (note 8); or, if further purification be desired, as in solutions of ore, the nitric solution may be precipitated warm, with carbonate of ammonis, and the precipitated earbonate dissolved in 100 grs. of sulphuric acid, diluted with 2 ozs. of water, and the excess nentralised with soda, after adding the copper retained in solution by the ammonia, which must be acidulated, then precipitated with sulphuretted hydrogen, and the sulphuret dissolved in nitric acid, which will be too little to require expulsion.

It may be better for further dilution; and for being left a little acid (see note 5, b, c); this is subject for further experiment.

Liquon for the Henn Plate.—For this, Mr. Smee recommends solution of sulphate of magnesia, which may be acidulated or not, as the course

tion of sulphate of magnesia, which may be acidulated or not, as the course of experiment shall decide. It should be lighter in specific gravity than the copper solution, that it may have no mechanical tendency to filter down through the bladder, and displace or mix with it.

CHARGING.—First lay in the plates, and connect them (note 9); then cover the iron plate with its solution (not deep enough to press down the bladder into contact with the copper), and then pour in the copper solution pretty quickly down the inside of the cell, so as not to fall upon the face of the copper, but rise quickly round, and spread over it, till it reaches the bladder (note 10), when the whole may be steadily poured in, and the iron call filled to the come land.

ine bladder (note 10), when the whole may be steadily poured in, and the iron cell filled to the same level.

It may now be left to work, regulating the temperature according to note 5, b, c, until the copper is all deposited in a flexible sheet, just turning over the lower corner, and which may be detached entire with the help of a thin knife-edge, and washed in warm boiled water for weighing.

The following explanatory notes are chiefly drawn from Smee's Electro-Metallurgy and Walker's Electrotype:—

NOTES. 1. The outer cell, containing per inch deep 4 finid ounces; the inner, nearly 3 finid ounces, or above two-thirds of the outer. 2. Because the strongest part of the solution tends to sink as the decomposition proceeds. 3. To prevent the deposited sheet overlapping and grasping it, so as to be difficult to repeated entire.

2. Because the strongest partot the soution tends to standard the comparate entire.

3. To prevent the deposited sheet overlapping and grasping it, so as to be difficult to separate entire.

4. To precipitate copper only.

5. a. To keep the bladder level, and prevent its touching the plates, which would make it liable to take on a small portion of the deposited copper; and plaster of Paris, or porous earthenware, still more. Capitain Prince may recollect Mr. Fox's artificial vein of copper, thus carried through a clay division—b. To keep the plates at the best distance, which can be regulated by the thickness of the rod; as, if the electric force is too great for the strength of the solution (or if the plates are too near), the deposit is apt to be in loose powder; whilst, on the contrary, if they are too distant (or the electric force is too weak) for the strength of the solution, the deposit forms very slowly, in hard crystals—c. The electric force and strength of solution may also be apportioned to each other, by heat, by acid, or by concentration, or weakening of the solution; nor is great niesty required in this adjustment, the flexible sheet deposition admitting considerable latitude.

4. To free the solution from the, antimony, &c.

7. To drive off the nitric sold, because iron decomposes sulphate of copper better than nitrate; also, to free the solution from lead and all other substances thus rendered insoluble. Muriatic acid is objected to by Mr. Simee, as interfering with the perfect deposition of the copper sheet; the condition of the copper sheet; the condition of the copper sheet with finer copper wire. I prefer the band.

10. This precaution is necessary for the easy separation of the deposited sheet from the plate. A thin coat of copper forms rapidly, on the closing of the circuit, by the contact of the liquids; and encloses (if the copper plate was quite dry and slightly tarnished) a film of air, which allows the deposited sheet to be easily separated from the plate, when the decomposition is co

In reply to Capt. Prince's question, respecting the particles of iron and carbon, the most practical means of avoiding them I have devised, in the ordinary wet assay, is the use of the finest nail rod for precipitation (laying in a little store of it when I find a sample which dissolves almost perfectly); but I cannot claim, either with iron or zinc, the degree of nicety given in his experiments—i. e., 1-16th per cent., or even 4th, with constancy and certainty.

To the queries of "Germanicus," I can only reply that, as we have not been able to procure, or hear of, any of the very durable Norway copper mentioned by him, I have no means of saying, practically, what influence nickel may have had in the case. Such Norway sheet as we have obtained does not show nickel in colour—i. e., is not distinctly paler than our own, in which the minute proportions of nickel found in my analyses (not 1-20th grain per cent.) can hardly be supposed to affect the durability. The Norway offering no peculiarity, either in appearance or sea wear, I have not yet had occasion to analyse it.

With respect to the extraction of the nickel alloy paying on the large scale, the cost will, of course, be affected by local circumstances. So far as I have the means of forming an opinion, it would be favourable; but cannot be regarded as a practical one.

Plymouth, April 16.

COPPER SHEATHING.

COPPER SHEATHING.

Sin,—Having noticed in your last Mining Journal a communication from "Germanicus," on the subject of the alloy of nickel with Norwegian copper ores, I think I may give a little information on the subject. I believe that the best mode of disposing of the nickel contained in these ores would be to make a portion of the copper produced from them as rich in nickel as possible. This might be done by not slagging off the iron too close in the first processe of smelting; but allow a small portion—say, 1 or 2 per cent.—to be carried on to the refinery furnace, when, if that process were carried a little further than is at present the case, the refinery slag would be found to contain nearly the whole of the nickel originally in the ores. This slag, when accumulated in sufficient quantities, if fused with a sufficarried a little further than is at present the case, the refinery slag would be found to contain nearly the whole of the nickel originally in the ores. This slag, when accumulated in sufficient quantities, if fused with a sufficiency of carbon, metallic iron, and limestone, would produce a copper rich in nickel, which, however, should undergo the refinery process to slag off any portion of iron that may be present; but care must be taken to stop the oxidation at that point, at which all the iron is separated, or a portion of the nickel will be carried off in the slag. If, however, this should be the case, this slag might be put back into one of the previous stages of the smelting, when the nickel would be again reduced by the iron contained in the ores.

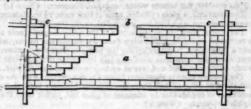
I should say that copper so produced would be worth 5L per ton more for every 1 per cent. of nickel contained in it. Being a considerable consumer of copper and nickel myself, I should have no objection to buy at that rate, providing it be made of good quality, and free from other impurities. The extraction of the nickel in a pure state, with so large a per centage of copper as mentioned by "Germanicus," would not pay the expenses incurred in the process; therefore I consider the producing of a good copper, rich in nickel, to be the most advantageous.

MANUFACTURE OF IRON.

MANUFACTURE OF IRON.

Sin,—As I have taken up so much of your valuable space with my incubrations on the properties of iron, I think it but fair to send a few practical results for the information of such of your readers as feel interested in the subject. My notion is, that pure iron and carbon do not combine chemically, but that such combination is effected through the agency of

oxygen; that this is the case with white pig or cast-iron; that the application of free or uncombined carbon, at a high heat, by withdrawing the oxygen, converts white into grey metal; and that the iron in the latter is in the pure metallic state, having carbon in the form of graphite, minutely diffused through it. It is now some years since I contrived a very simple mode of treating fused metal upon a large scale, of which I send a brief outline. This may be used either to improve the quality of foundry pigiron, to ensure strong castings, at the same time uniformity of temperature and quality throughout a great bulk of metal, or as a preliminary treatment for some new preparations of iron. I have recommended this plan to several parties; it has been attended with some extraordinary results and proved most successful.



This rough sketch must be supposed to represent a vertical section of what I term the cementing kiln—a hollow pyramid of fire-brick work, having strong metal plates at top and bottom, well bolted together. The hollow space, a, to be filled with large pieces of solid carbonaccous matter—as compressed coke or anthracite coal, ignited, and a blast applied at the opening, b, to be driven downward, and allowed to pass off through a series of small flues at the sides and corners, c, e. When the kiln and fuel are sufficiently heated, and the metal, either from a blast-furnace or a cupola, is ready for running off, the blast is to be stopped, the metal run in and left at rest the requisite time, and then tapped off.

April 16.

T. H. LEIGHTON.

and left at rest the requisite time, and then tapped off.

April 16.

T. H. LEIGHTON.

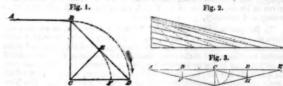
IRON FOR RAILWAY PURPOSES.

Sir.—I am unwilling to trespass upon your columns, but should feel obliged if you will allow me to offer a few remarks upon a letter, signed "A Civil Engineer," which appeared in the Mining Journal of the 6th inst., as the writer of that letter has, no doubt quite unintentionally, misrepresented the few observations which fell from me at the Institution of Civil Engineers. In common with "A Civil Engineer," I listened with great attention and interest to all that fell from Mr. Thorneycroft, and was glad of an opportunity to congratulate him upon the applause which his ability, experience, and researches, so justly entitled him to receive.

Your correspondent stated that I said "I fully agreed with a remark in the paper—that for making good iron a great deal depended upon the pureness of the materials from which it was made." Now, I understood the argument used by Mr. Thorneycroft in his paper to be, that the material had, compared with the manufacture, little to do with the quality. I consequently stated that I begged to differ from him on that point, for it was my humble opinion that it was very important the ore and coal should be of the best quality to secure a superior iron; that the Low Moor Company possessed superior ore and coal, and prided themselves upon manufacturing axles of the best description; and that since they had been makers of railway xales they had had but one case of breakage brought before them, and upon investigation it was found, and admired by the makers of the wheels, that the axle had been ordered to an incorrect dimension, cut in half and welded at the centre, and that it was in consequence of that weld it broke. I likewise stated that the Low Moor Company agreed with Mr. Thorneycroft upon the shape of his axles, but that a great difference of opinion existed upon that point amongst engineers, that I had had a conversation with "an" engineer upon the North-Western Railwa

TUBULAR BRIDGES.

SIR,—Having gained much valuable information through reading the scientific correspondence with which your Journal abounds, it would be ungenerous in me were I to withhold, when opportunity offers, giving your enlightened and liberal contributors in return such information as I may have acquired on a subject which, though perhaps well understood by some, appears not to be fully comprehended by others of your scientific



correspondents. In fig. 1, let B C be equal to C D; the former at right angles, and the latter parallel to A B, connected by a diagonal, B D; and let it be required to know the relation between a given force applied parallel to B C, at D, and the effect produced on A B and B D. Let C be a fixed point, or centre, around which the figure may revolve, it is evident that, as B would move at the same rate as D, the effect produced on A B will exactly correspond with the force applied at D. If B C were greater than C D, the strain produced on A B would be less than the force applied on D, and vice versă. To determine the effect produced on the diagonal, B D, draw a line, C E, at right angles to B D, to the centre, C; then as C D is to C E, so will be the strain on B D to the force applied at D, which, perhaps, will be more apparent by supposing that E were removed to F on C D. When it is desired to make the strain on the diagonal, or suspension bar, to have a definite relation to the weight at the foot (D), C E (not C B) must be equal to that proportion; thus if the "leverage," or strain, on the suspension bar is to be 4 to 1 of the weight it has to sustain, the nearest point (E) of the suspension bar to the angle (C), where the beam (C D) rests on the pier (C B), must be equal to one-fourth of the length of the beam. If the strain should be 3 to 1, the nearest point (E) on the suspension bar will be one-third of the length of the beam; or, if 2 to 1, one-half, and so on, for any other proportion.

In fig. 2, the prominent lines exhibit the arrangement of the suspending bars, as proposed by your correspondent; but a little consideration will, I think, enable him to see that "economy" and "inflexibility" would be better secured by adopting the arrangement exhibited by the dotted lines; for, on investigation, it will be found that, although the suspending bars are longer, they will be considerably lighter, as the, "leverage," or strain, is diminished in a greater ratio than their length is increased; and, as regards th

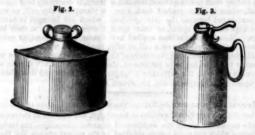
suspension bridges, published in your Journal of Feb. 24th, 1849, and is as exhibited at fig. 3, with a leverage of 4 to 1, as proposed.

Now, if a weight of (say) one be applied at C, it will, as represented, produce a strain of two on A, F, G, and G, H, E; but the centre is not the weakest point of the bridge; for, by removing the weight to B or D, the strain on a portion of the suspension hars would be 50 per cent, more than when the weight was at C. From A to F the strain will be three for every one on B; or, if a load of one was placed at each of the points, B, C, and D, the strain on the suspension hars would be as follows, and their strength should be regulated accordingly:—From A to F, and from H to E, the strain would be six; from F to G, and on to H, four; and on the two short bars, F, C, and C, H, two; the strain from A to F, and H to E, would be the same if all the weight was at C; and precisely the same effect on the chains would be produced if a weight of four was distributed uniformly over the whole length of the bridge as if a weight of three was laid on B, C, and D. I hope, Sir, the importance of this subject will be a sufficient excuse for my trespassing so much on your valuable space.

April 16.

AN ENGINEER OF THE NEXT GENERATION.

THE SHOWER BATH.



Sin,—It was in consequence of the ordinary shower bath having proved at al to a gentleman at Brighton, from the violence of the shock, that I as led to my invention. A second edition of a " Descriptive Account of a New Shower Bath, constructed on a Principle not hitherto applied to that Machine," was published in 1831; and as I am anxious that the pub-

that Machine," was published in 1831; and as I am anxious that the public should benefit by the invention, as well as individuals, I venture to submit that "descriptive account" to you.

With the solitary exception of one guinea, already referred to, I have never received one farthing for my inventions from first to last, effected at the cost of many hundreds of pounds, and the unwearied toil of many years; while unprincipled individuals have uncrupulously dared to invade my rights, and tried to deprive me of the simple merit of my inventions. Thousands of "nursery shower baths" have been, and are being, made and sold, and, though originating with me, are not recognised; and Mr. Hazard even took out a patent for the same principle. However, my shower bath has ramified far and wide; the public has been benefitted by the invention, and that is my only reward.

The principle is easily understood, and is merely this—the saspension of a column of water by the resilience or resistance of the atmosphere, and its partial or entire descent by the admission of atmospheric pressure, momentary or continued. The figures 2 and 3 show the form used in the "hand shower bath," and the main figure is copied from that from which the shower bath at Bishopsthorpe was made, and as used by the late Archbishop of York. If the incense of praise, and the hosanahs of universal approbation wherever it has been used, can be gratifying, I have enjoyed my full share, and so far have nothing to complain of; but age and years have sobered and softened down the pride and pleasure I once felt in these tributary offerings.

The figures No. 1, exhibits the frame-work, including the mechanism of

my full share, and so far have nothing to complain of; but age and years have sobered and softened down the pride and pleasure I once felt in these tributary offerings.

The figure, No. 1, exhibits the frame-work, including the mechanism of the shower bath. At the bottom of the case is a vessel, which is moveable, and supplied with water at the required temperature. Into this eistern the bath is lowered by a winch, and the lever valve being raised, the water enters and fills the vase; the valve, which falls by its own weight, is now shut, and the vessel is then raised to the required altitude by means of the winch, which, being furnished with a recoil clamp, will prevent its descent until it be required. A string attached to the lever valve in the hand of the individual regulates the descent of the shower, which may be checked at any moment, and these intervals allow the application of the flesh-brush. It is obvious that water, either salt or fresh, may be employed, and these, too, at any required temperature. There is a perforated trap door below, to allow the water to run off into a receiver beneath. When the vase is supplied, the vessel which contained the water for this purpose is removed, and a circular plate of cork introduced in its stead. It is needless to say, that the bottom of the shower bath is perforated, like the rose of a watering pot: a, secures the bath in its proper position, should any doubt arise of the cord being of insufficient strength.

When I introduced the shower bath in 1828, a physician thus writes me—"I congratulate you on the successof your very ingenious invention, and shall be most happy in giving it every recommendation in my power." Another says—"Mr. D. has made your shower bath fashionable here; nothing can be better." Another—"You have conferred a lasting obligation on my family by your excellent shower bath. I got one made for myself, another for Mr. F. W.; Dr. H., and others, have copied from these." I might fill a column with extracts.

J. MURRAY.

Portland-place. Hull, Ap

J. MURRAY.

I might fill a column with extracts.

Portland-place, Hull, April 16. —

THE DRY ROT QUESTION.

SIR,-I repel, with honest scorn and indignation, the foul inuendo with which your correspondent introduces his heartless attack; and though which your correspondent introduces his heartless attack; and though my version of the injunction de mortuis nil nisi bonum, is de mortuis nil nisi rectum, it was sufficiently clear that the reference was made to a controversy I had with Mr. Kyan himself, some years ago, when the late Dr. Birkbeck came to his rescue. I renewed the subject just as I had done others. I never once adverted to Payne's process, from beginning to end. I leave all the benefit to be derived from calling in question the veracity of the Duke of Portland, Earl Manners, Sir John Barrow, Dr. Moore, and others, to be enjoyed by your correspondent.

Sir H. Davy abandoned the process from a conviction of its danger; and as to Dr. Faraday's opinion of its safety, all I shall say of the TEST he proferred is, that he is a bolder man than I pretend to be, for I should as soon think of wearing a plague-spot garment, and I am not, by any means, a timid man! Even on the supposition that the assumption touching the albumen of the sap being the cause of dry rot was correct, I said, causa

argumenti, that I had found chloride of copper to coagulate it; perhaps it might have been better expressed parenthetically; but most assuredly, perverse ingenuity alone could torture it into a self-contradiction.

It will be remembered that several of the Giraffes, originally introduced into the Regent's-park, perished. These noble creatures were incessantly licking the Kyanised wood of their enclosure; to that circumstance, at the time, I ascribed their deaths, and expressed this opinion in a London newspaper, which remained without a negative. In a word, the shattered and ruined constitution of the persons engaged in the process is a too painful emblem of the ruinous condition of the "Patent Anti-Dry Rot Company," judging from the price of ahares! Asto my conductor, I may merely say, "Ponderthus librats suls."

It may be my misfortune that I cannot accept your correspondent, either as an oracle on the subject of electricity or the diamond, but that unfortunate rejection affords no license for personal attack.

In reference to conductors, and any future remarks of your correspon-

tunate rejection affords no license for personal attack.

In reference to conductors, and any future remarks of your correspondent, I shall be for over silent. I have been your humble correspondent for nearly ten years, and as the end and aim of, I hope and trast, an honourable and useful life has been EXCLUSIVELY THE PUBLIC GOOD, and not self-gratification, I shall immediately retire from the arena of your Journal, when personal hostilities become the order of the day.

J. MURRAY.

Porlland-place, Hull, April 17.

P.S.—Next week I shall gladly refer to the query of Mr. Simp, tendered to me through you, but I am at this moment much pressed for time.

[We feel satisfied our correspondent intended no personal hostility, much less infliction of pain, on the feelings of Dr. Murray, any more than we did in publishing his communication. In such discussions, although committed to paper, sentences will creep in, which a writer often, on consideration, would wish had been modified; and, in the accumulation of our Original Correspondence, we cannot always detect that latent pungency in a paragraph, which may prove unsatisfactory to others. While we regret any ground for diseatisfaction, we must say, we cannot see the remarks in so strong a light as Dr. Murray sppears to view them.]

THE LIGHTNING CONDUCTOR.

Str.—The continued personal hostility waged against me on the part of your correspondent is patent to all your readers; even a mere inadvertency is pounced upon with a voracious avidity, and when an opinion adverse to mine is expressed, he forthwith rushes to the aid of its author, as if the opportunity was too good to be lost. Principles are held to be subordinate, in order to nibble at details. As to any concession extorted by the force of truth, all that I shall say is—

"Timeo Danaos, et Dona ferentes."

In reference to the voltaic principle attached to the conductor as conservative of freedom from exidation, it is reluctantly admitted that it is effective when the air is humid; and it is equally evident its power may be made continuous with the aid of a deliquescent salt. Will your captions correspondent condescend to give us a better plan? Before ever the name of Sir S. Harris was known to science, I had been in the habit of showing the preference of electricity for the nearest pathway by lines of phanbago traced on paper, zig-zag and direct, curved or rectilinear, affording simple and beautiful illustrations, from the metallic lustre being defaced in the line of discharge; and long before my time the fact had been proved by other more complicated means.

Once for all—and the question, as far as I am concerned, is at an ensituated—not a fanciful theory, but a fact carried out into successful operation. Surely twenty years is a sufficient test of excellence, and FIFTY a tolerable numerical array!—J. MURRAY: Portland-place, Hull, April 16. " Timeo Dangos, et Dona ferentes."

LIGHTHOUSE ON THE GODWIN SANDS.

LIGHTHOUSE ON THE GODWIN SANDS.

Sir,—I proposed an entirely new and unquestionable plan, whereon to rear a beacon, or permanent lighthouse, on these treacherous sands, where many a gallant ship hath gone down. This principle was submitted to the Lords of the Admiralty. By them I was referred to the Elder Brethran of the Trinity House, who, in their turn, informed me they had no intention whatever to erect anything of the kind! Hence there is no hope whatever from these quarters; so shipwreck, in all its appalling horrors, is in their wisdom, but lightly esteemed—alas! alas! It was in the exercise of a sacred duty that I submitted my plans, and the rejoinder was a frigid and formal recognition.—J. Murray: Portland-place, Hull, April 16.

GODWIN AND TONGUE SANDS.

GODWIN AND TONGUE SANDS.

Sin,—I feel obliged and flattered by the remarks of your correspondent, "Observer," in the last number of your valuable Journal, on the erection of a lighthouse, or houses, on the Channel sands, with respect to the necessity of which his observations are but the echo of thousands of the British community. Past experience should have taught the proper authorities that the apology for beacons, as at present employed on these dangerous sands, are both expensive to the country and totally inefficient for the purposes intended; yet each succeeding year records a loss of life and property almost too fearful to contemplate; while no steps are taken to remedy she evils, notwithstanding the continual remarkence of these great national calamities.

The thorough efficiency of the plan I proposed, some time since, in the

property almost too fearful to contemplate; while no steps are taken to remedy the evils, notwithstanding the continual recurrence of these great national calamities.

The thorough efficiency of the plan I proposed, some time since, in the Mining Journal, for studding these sands with lighthouses, has never been disputed, but, on the other hand, approved of by all who have inspected them; and Mr. James Walker, C.E., in some observations made by him, at the Institution of Civil Engineers, at the time the plans were exhibited to the public, and in reference thereto, remarked that, if a permanent lighthouse is ever to be created on these dangerous places, the sand must be pierced through, and the foundation for the lighthouse be laid in the solid formation below. Mr. Rendell, and other engineers, also spoke highly of the project, and this in the presence of some of the Trinity House anthorities. Since that period, two large vessels have been lost, 400 lives sacrificed, and an amount of property destroyed, more than would have covered the expense of creating a permanent lighthouse on each end of the Tongue Sand, with proper screaming apparatus, which might be heard at two or three miles distance, in every direction, to warm the mariner of his approximate danger.

With respect to your correspondent's remarks, whether a company could not be formed for the erection of lighthouses on these sands, I have no doubt such a company could be formed for this humane purpose, provided the authorities would grant the privilege of taking tolls from shipping to pay them an interest on their outlay, of which I fear there is little hope, as all the lighthouses which were originally built and supported by private individuals have been purchased up, for the purpose of placing all under the control of the Trinity House, and making the system uniform. I intend shortly to get up two petitions, to lay on the table at Lloyd's for the signature of all interested, for presentation to the House of Commons and the Brethren of the Trinity House

LIGHTNING CONDUCTORS.

Lightning Conductors.

Sir.—In your Journal of the 6th instant, Dr. Murray gave a very good description of his plan of fitting lightning conductors, with an engraving of St. Paul's Church, Huddersfield, and the expense of fitting that church with his conductor, which is made of copper pipes, in lengths of 10 feet each, screwed together, measuring 170 ft. in length, and ½ in. inside, and ½ in. thick. The Doctor informs ns, that this conductor cost 1s. 7d. per yard, and the entire cost did not exceed 3l. 10s.; on this point I feel consident that the Doctor is, by some means, wrongly informed, as that size and thickness of copper piping will weigh about 1 lb. per foot; consequently, if we take the price at 1s. per lb., which is a low price, the piping itself would come to 8l. 10s.; workmen's time in screwing each end of the 17 pipes, not less than 10s.; expense of 17 holdfasts for fixing the same, and the workmen's time, say, 1l. 10s.—making the whole expense 10l. 10s., and very cheap at that price, as 19 of your readers out of 20 will think, as a great many of them well know the price of copper piping, and the labour of fixing it to such a high spire. The undersigned has made and fitted upwards of 1000 lightning conductors within the last 12 years, and the price per foot has been, on an average, 1s. fitted complete; about 800 of them have been fitted to shipping, and all of them made of copper wire-rope, about ½ in. diameter The advantages of copper wire-rope over anything else. I have found to be great, in consequence of perfect continuity in one length, and the economy in fixing them, besides the great cop-

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Wire-Rope Works, Wapping, April 18.

Andrew Shite.

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Wire-Rope Works, Wapping, April 18.

CERTIFICATE FROM CAPT. CRAWFORD.

"Energoot, August 24, 1842.—The ship Blakely, of Liverpool, belonging to Messrs. Taylour, Potter, and Co., left Liverpool in the month of Feb., 1841, bound to China, fitted with repeated the copper wire-rope lightning conductor on the mainmast, from the maintop gallant masticed down to the mainral, from thence to the capper. The capitals was made acquainted that the mainmast was protected, but the royal mast was not, and for him (the first) he had to put the copper wire-rope from the conductor to the truck, which he did not do. When the partired off Java Head, she encountered a severe storm of the did not do. When the struck the main royal mast, and shivered it all to pieces. The lightning then descend by the conductor into the water, to the astonishment of all on board, doing no other damage to the ship. I am happy of having an opportunity of making you acquainted with the circumstances. I hope it will attimulate other shipowners to mittate the house of Messrs, Taylor, Potter, and Co., whose ships have all been fitted by me with your copper wire-rope lightning conductors for three years, and approve of them. The ship I command was struck, laying la New York; the finite passed down the conductors to the water, without injury to the spars or hull."

ON COMETS.

Sir,—Your correspondent, Mr. Parsey, in his communication respecting the appearance and nature of comets, has allowed his genius to take as eccentric a flight as the very comets themselves. Leaving to others, more able than myself, to combat, if they will, Mr. Parsey's theory, I venture imply to point out wherein I consider his reasoning to be bad. If comets always presented the appearance he mentions, as being similar to that of light passed through a lens, some doubt might, perhaps, arise upon the subject; but it is well known that they have often been seen in the heavens as bright as a sar, and the clearer the atmosphere the more brilliant the object, which tells completely against the analogy which he puts forward, in reference to rainbows, as every child knows that the bow must be in the cloud—that is, that there must be a back-ground against which the bow is alrown, and the darker the cloud, or back-ground, the brighter the bow. I suggest these objections to Mr. Parsey's theory, as those arising from common observation. Others occur to me of a more scientific nature, but I do not wish to get out of my depth.—Onesnevan: London, April 16.

THE ELECTRIC LIGHT.

THE ELECTRIC LIGHT.

Sig.—After all that has been said, written, and exhibited, of the means of accomplishing a continuous, economical, and brilliant species of artificial illumination for domestic and commercial purposes, by the application of galvanic electricity, a successful result appears as far from attainment as ever. On the appearance of Mr. Staite's specification, an abstract of which you gave in the Mining Journal of 23d March last, and after his exhibitions at Crosby Hall and the Society of Arts, a few week? since, I had hoped we should have seen some sit made on the subject, and some steps taken for practically convincing the public of the efficiency and economy of Mr. Staite's arrangements. I was present at Crosby Hall, when Mr. Staite distinctly stated, in answer to a question from one of his audience, that himself and partner (Mr. Petrie) had completely established the economy of the electric light; and that it could be supplied, light for light, at as low a figure as gas, or any other artificial illumination. He also requested his hearers to take his word as to the improved constancy and powers of his new battery, until the period arrived when his specification should be published. This time has arrived. I, and no doubt many other, have seen the specification; and I much regret that I cannot see those important improvements which Mr. Staite led us to expect would reader illumination by electricity perfection itself.

His capillary explains, sulphurising process, and some other improvements in detail, may be all well in their way, but out of the whole 13 claims which are made under the patent, it does not appear to me that any new fundamental principle is evolved in the generation or maintenance of power, to produce a light with the necessary economy. His improved method of employing saline solutions, for which a claim is made, is not new; the self-acting equaliser, the compensating balance galvanometer, the deferential galvanometer, with the chain and barrel movement, are complexities, which can

&c., and, in any situation, will be continually getting out of order. I fear at present we are as far as ever from the great desideratum—a simple and economic electric light—but shall, if in error, be most happy to be undeceived.—A. Z.: Brook-street, Grosvener-square, April 17.

THE ELECTRIC TELEGRAPH.

THE ELECTRIC TELEGRAPH.

Sin,—In reference to the question of merit between the system of electric telegraphs in use upon the lines of railway of this country, and that lately patented by Mesers. Brett and Little, an argument is advanced in your Journal of the 6th inst. which I cannot quite admit. In answer to some remarks made by me in a former Number, with the object of correcting the idea that Mesers. Brett and Little are able, with a single needle, to convey signals with a rapidity equal to the double-needle system of Mesers. Cooke and Wheatstone, it is stated that "the real question is not whether, with one, but whether we can make more signals in a given time than with one, but whether we can make twice as many. If we cannot make twice as many, there is an obvious advantage in using one wire; and the more the number of signals falls short of this quantity, the greater the advantage becomes."—1. If the former part of this sentence be correct, why, I would ask, was not the single-needle, single-wire, system adopted upon our railways, in preference to that with two indicators and two wires? By this latter arrangement, the alphabet is given in 48 simple movements; with a single needle only, 74 such movements are required, occupying a much less time than 96, the double of 48. In each case I have taken the code engraved upon the Telegraph Company's instruments, omitting in both, as was until lately done, the letters J, Q. Z.—2. If it be true that the more the number of signals that can be shown in a given time by means of two wires, falls short of double the number that any single-wire system becomes; or, in other words, if the advantage of the single-wire system becomes; or, in other words, if the advantage of the single-wire system becomes; or, in other words, if the advantage of the single-wire system becomes; or, in other words, if the advantage of the single-wire system becomes manifest; for, by the latter system, 90 movements are required to express the whole alphabet; by the former only 82, using combina

four movements each for two of the omitted letters, and expressing the other by the same signal as that marked on the dial, as denoting only the + or "end of word."

I cannot close without one remark on Dr. Steinheil's system, or rather I would ask the question—was not his bell telegraph, in which two prime movers were operated upon with a single wire, as much, or more, correctly a "colloquial" instrument than that of Messrs. Brett and Little?

April 17.

P.S.—In the Mining Journal of this week, mention is made of an improved electric telegraph, alleged to have been invented by a Mr. Alexander Mitchell, and described in a lecture delivered by him at a recent meeting of the Philosophical Society of Glasgow. The apparatus appears to consist in an arrangement of keys upon a board before the operator, each marked with a letter of the alphabet, on pressing any one of which the corresponding letter is instantly shown upon the distant dial, only one wire being required. If this description be correct, Mr. Mitchell is the first to produce what many others have in vain attempted—a perfect collequal telegraph—for such, in the fullest sense of the word, it must be, The beautiful letter-showing instrument, exhibited with other kinds at the Society of Arts, in February, 1849, and which I magine to be the one alluded to in your Journal, certainly did show instantly upon a dial the letter corresponding to the key depressed; to effect this, however, three wires were required. Perhaps some of your Glasgow correspondents can enlighten us as to the success of Mr. Mitchell's experiments.

THE MAGISTRATES AND THE CORONERS OF GLAMORGAN.

THE MAGISTRATES AND THE CORONERS OF GLAMORGAN.

Sur.—It is reported in the Cambrian of last Friday that, at the Quarter Sessions for the county of Glamorgan, which was held on the 9th instant, the finance committee recommended "that in no case should the expense of an inquest be allowed where death may be caused by pure accident." Now, there are about 200 violent deaths annually occurring in the colleries of the county, and the coroners' juries have hitherto invariably assured the public, by their verdicts, that all these deaths were accidental, or, in the words of the finance committee, were "caused by pure accident." The utility of holding inquests in such cases has been long questioned, and is, in fact, merely the observance of the forms of an antiquated custom, by which a heavy expenditure of the funds of the county is incurred, without any public benefit resulting from it. The coroner's charges for the last year amounted to 839!.—a part, if not the whole, of which might certainly are undoubtedly entitled to the gratitude of the ratepayers for recommending such a proposition, and it is hoped that their example will be followed by the magistrates of other mining districts. So intelligible a hint cannot well be misunderstood, and the result will probably be conducive to the interests of humanity, and the better administration of justice.

Neath, April 15.

J. RICHARDSON, C.E.

TIMBER TRACKS ON TURNPIKE ROADS.

TIMBER TRACKS ON TURNPIKE ROADS.

RESPECTED FRIEND.—It affords me satisfaction to observe, that common sense is at last likely to prevail, and that timber tracks for common roads (which I have for so many years advocated) are likely to get into general use, as I find the Americans have very successfully commenced its adoption, by which means passengers may be conveyed by horse power at the speed of 10 to 12 miles per hour, at the cost of \$\frac{1}{2}\tau\$, to \$\frac{1}{2}\tau\$, per mile, and still afford a large profit to the contractor. The following is an extract from an American paper, just received:—

Plank Roads.—We observe that the attention of the people of this and other states is being attracted to the utility of plank roads. The Reading papers have suggested the construction of such roads from that city to Lancastor, in Bucks county; also the people have held meetings upon the matter. They are said, wherever they have been made, to answer every purpose. That cur resm may ludge of the cost and profit of the said roads, we insert the following from one of our exchanges:—

The Waterville and Utica road, 19 miles long, and costing \$34,000, has just declared a dividend of 10 per cent. Jaid by for repairs.

The Utica and Bridgowater road, 20 miles long and costing \$44,000, has just declared a dividend of Holy and the such to the sockholders on demand, and 10 per cent. Jaid by for repairs.

lividend of 10 per cent., payable to the account of the per cent. The Utica and Bridgewater road, 20 miles long and costing \$45,000, pays 25 per cent.

The Secularly.

The Boorville road pays 22 per cent.
The Waterbourn road pays 25 per cent.
The Waterbourn road pays 25 per cent.
The Fonda and Johnson road, four miles long and costing \$5000 (about 400), per mile),
ays regularly 15 per cent.

ays regularly 15 per cent.

It thus appears that the average cost of such roads in America is about 1000, per mile; in England the cost would be about 1000l, per mile.

Agreeable to my promise, I hope to be enabled to send to your office lost, if not all, of the following models by the latter end of next week, at the inspection of such of your friends and the public as may feel interested therein:—

1. A beautiful model of our patent plan for a wrought-iron triangular bridge, to be submitted for adoption in St. James's-park, and Clifton, near Bristol.

2. A model of an inflexible suspension, with a draw-bridge in the middle, intended to be submitted to the correction of Bristol, for adoption at the Hotwells; and also for a 3. A model of an under-suspension viadnot bridge, as described by Dr. Lardner, in its Cyclopedia, on from and Siegi, 1831.

4. A model for a beginning the supersion of t

the effect on a bridge by its own weight,

6. A model of a bow-and-string railway bridge.
7. A maschine for showing how to determine the effect on a bridge by its own weight, and also of the leads passing over.
8. Models of our patient timber agricultural railway.
9. A model of our patient timber agricultural railway.
10. A beautiful model of our patient steam pile-engine.
11. A ditto of excavating and drail-making engine.
12. A model of our patient improved carriage for common roads.
13. A model of our patient improved carriage for common roads.
14. A splenskid drawing (about 16 feet long) of my design for a gallery of arts over the whole length and breadth of Waterloo-bridge, for the exhibition and sale of the works of art and science from all parts of the world.

Stangate, Lambeth Ath me. 17. Stangate, Lambeth, 4th mo. 17. T. MOTLEY, C.E.

STEAM FOR THE ANDES.—An iron steam-boat, of small size, has recently been built by Mr. George Birbeck, jun., of New York, which, from its destination, merits some notice. The boat is 55 feet keel, 12 feet beam, and 5 feet hold. She is to be propelled by two high-pressure engines, of 10-horse power each, connected atright angles. Water-wheels 10 feet diameter, and of wrought iron. The whole being fitted together in New York, and each piece marked before being shipped. No piece is to exceed in weight 350 lbs, as, of it arrival at Lims, it has to be transported on the backs of mules to its destination, Lake Titicace, which is situated near the summit of some of the highest mountains that country, and several miles above the level of the sea. As yet, commerce must be in its infancy in that cleavated region; but the lake is 140 miles long, and its coast well timbered, and it is understood that much traffic would be the result of increased facilities. In case the first boat succeeds, a larger one is to be sent out immediately.—Journal of the Franklin Institute.

FARRAIRN's WROUGHT-IRON GIRDER BRIDGES.—The Britannia and Conway Bridges are not the only structures built of wrought-iron on the tubular principle. Mr. Fairbairn, in experimenting on iron tubes, from the suggestion of Mr. Robert Sephemon, very soon applied the principle to hollow for Astway bridges of moderate spans; and, in the appendix to the Report of Mr. Fairbairn of the Application of Iron to Raikeay Perposes, is a report by Mr. Fairbairn of the Application of Iron to Raikeay Perposes, is a report by Mr. Fairbairn on the Application of Iron to Raikeay Perposes, is a report by Mr. Fairbairn on the sectingular tubes, it soon became evident, from the results obtained, that built of the sand transparent; and, in fact, such form was suite obtained, that built form became apparent; and, in fact, such form was found absolutely necessary to a sufficient resistance to the crushing force. The great object was to arrive at its aefficient resistance to the crushing force. The great object was to arrive at its exact proportion which the top and bottom aides of a tube should bear to end other, to effect a balance of the resistance in every part. This discontant was the calcular top and bottom, and the greatly increased value which a tury of the cellular top and bottom, and the greatly increased value which a tury of the cellular stop and bottom, and the greatly increased value which a support the support of the property provers of resistance, greater security, and the greatly increased value which a support of the property provers of resistance, greater security, and the calcular top adapted to shorter spans. This description of bridges is now becoming general; and, from its surface, and the greatly increased that wrought-iron is much a support of the provision of painty and the greatly increased that wrought-iron is any, this could only arise from gross negligence, as they adaptation to bridges of cheaper and asfer, if not equally durable, with any other description of material parts of the structure, in comment of th

Mr. Enitain read a paper, at the Institution of Civil Engineers, on these experiments, on the 12th March last, the discussion on which will be found in the Missing Journal of the 16th and 28d of that month.

The Great Tunnel of the 16th and 28d of that month.

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may form the subject of another article.

RAILWAY COMPANY PROHIBITED FROM APPLYING THEIR FUNDS IN CONSTRUCTING PART OF THE LINES.—In the Rolle' Court, on Monday last, in the case Hodgson v. Powis, Messra. Roundell Palmer and Westoby again brought forward the motion made before the Easter recess, to restrain the Shropahire Union Railway and Canal Company from applying funds arising from 20% shares in constructing a part only of their lines, authorised by their Act of 1846, being one line from Stafford to Shrewsbury, another from Newton to Crewe, and a third from Chester to Wolverhampton. They stated that the company had abandoned the whole of these undertakings, except the line from Stafford to Shrewsbury, and contended that they could not legally employ those funds raised to complete a system of lines in the construction of a part only. Messra. Turner, Speed, and Wilcox, argued for the defeadants, but the Muster expressed his opinion that the money could not be legally applied in constructing a portion only of the railways. The injunction must be granted to restrain the defendants from making part only of the undertaking, but not to restrain the payment of debts and liabilities contracted before the date of the notice of motion, or of the current expenses of maintaining and working the line.

IMPAIRED CONSTITUTIONS, DEBILITY, INDIGESTON, AND RILE, CURRD BY HOLLOWAY PLLIS.—The well-known efficacy of these invaluable pills in the cure of various complaints is the most convincing reason that persons suffering from imprired constitutions or weakness, arising from any cause whatever, or who are subject to attacks of bile, or labouring under indigestion, should have immediate recourse to them. Their populiar properties act a cure of headaches, liver complaints, and disorders of the stomach, and are a certain remote for dropsy.—Sold by all draggists, and at Professor Holloway's establishment, 244, Stand, London.

TOUGHENED CAST-IRON—STIRLING'S PATENT.
No. 1—For SMALL and MEDIUM CASTINGS.

No. 1—For SMALL and MEDIUM CASTINGS.
No. 3—For HEAVY CASTINGS.
No. 3—For HEAVY CASTINGS.
No. 3 (Extra)—For ROLLS, HEAVY SHAFTS, and VERY HEAVY CASTINGS above is by far the strongest Cast-from made, and is now being extensively use strong castings are required.
ther particulars may be obtained on application to Measrs. GARDEN & MACANDREW, sen-street, Cheapside, from whom also the IRON can be PROCURED.

IMPROVED WIRE ROPE.—The UNDERSIGNED, in ring their best thanks for the liberal support they have hitherto received, resolicit attention to the vast IMPROVEMENTS which new machinery and atsas enabled them to effect in the MANUFACTURE of ANDREW SMITH'S WIRE ROPE, more particularly his FLAT ROPE, which they can now produscription far superior to any previously offered to the public.

WILERINS & WEATHERLY. Patent Wire Rope Works, 39, High-street, Wapping, London.

DATENT IMPROVEMENTS IN CHRONOMETERS E. J. DENT. 82, Strand; 33, Cockspur-street; 34, Royal Exchange (clock tower area atch and Clock Maker, BY APPOINTMENT, to the Queen and his Royal Highner fince Albert, begs to acquaint the public, that the manufacture of his chronometer steches, and clocks, is secured by three separate patents, respectively granted in 1876, 1842, Silver lever watches, jewelled in four holes, 6gs. each; in gold cases, from 5 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each. DENT'S PATENT DIPLIEDOSCOPE,

or Meridian Instrument, is now ready for delivery.—Pamphlets containing a de nd directions for its use is, each, but to customers gratis.

THE PATENT OFFICE AND DESIGNS REGISTRY.

No. 210, STRAND, LONDON.

INVENTORS will receive (gratia), on application, the OFFICIAL CIRCULAR OF

NFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and

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Measts, F. W. CAMPIN and CO. offer their services, and the benefit of many years
experience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with due
regard to valibity, economy, and dispatch—sassisted by sclentific men ofrepute.

Also, in MECHANICAL and ENGINEERING DRAWINGS, whether connected with
Palentia, Railways, or otherwise, by a staff of first-rate draftsmen.

Application personally, or by letter, to F. W. Campin and Co., No. 210, Strand (col
ner of Essex-street).

Dew Patents.

[From the Mechan ics' Maga cine of this day.]

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

J. Banistas, Birmingham, manufacturer: For a certain improvement or certain improvements in tubes for locomotive and other boliers. The improvements which are sought to be secured under this patent relate—first, to the manufacturer of compound tubes for locomotive and other boliers; and, second, to a mode of uniting tubes of cepper, brass, and other alloys of copper.—I. The compound tubes are each made of three separate tubes of copper, iron, and brass, which are of different diameters, in order that they may it one within the other, the copper outside, the brass inside, and the iron between the two. The compound tube is then placed, while in an annealing state, upon a tapering mandril, and drawn through a series of dies, where the different metals will be brought into close contact with each other. A tube thus formed will have the advantage of presenting copper to the action of water, brass to the action of rith efficient of wall possess the rigidity of from. When the heat is to pass over, instead of through, the tubes, thou, of course, the brass must be placed outside and the copper inside,—2. The mode of uniting tubes of copper or brass, and the alloys of copper is as follows:—The metal plate is bent into the form of a tube, and the edges thus brought together are chamfered away by an angular file, so as to form a kind of trough. The inside of the tube is then filled with sand, and the outside covered with the same substance, with the exception of the trough. The tube is heated to a red heat, and melted metal of the same nature is poured into the trough, the edges whereof will be partly fused, and therefore subsequently united. The superfluous metal is afterwards removed by a circular saw or otherwise.

Claims.—I. The manufacture of compound tubes for locomotive and other boilers.—2. The mode of joining the seams of tubes, of copper, brass, or any other of the alloy of copper, for locomotive and other boilers.

- W. S. GILLETT, Esq., Wilton-street, Groavenor-place: For improvements in packing pistons, stuffing-boxes, slides, and other parts of machinery, and in forming bearings, and in making cylinders and other forms of metal. This invention consists in forming the packings of pistons of a number of "dished dises," of any soft or anti-friction metal interposed between top and bottom ones of brass, or some other hard metal. The dises are pressed or held together by screwing down the top plate of the piston, whereby it bears upon the exterior edges of the dises, and keeps them in contact with the inner circumference of the cylinder, until they lose their dished form and become flat; after which they may be removed, and fresh ones substituted in their stead. In packing rods and making stuffing-boxes, it is, of course, the inner edges of the dises that are dished, and against which the plate prosses. The patentee states, that it will be obvious to every practical engineer, that the same principle of construction may be applied so at to serve, at the same time, as stuffing-boxes and bearings for axies and machinery in general. To make cylinders, and other forms of metal where great strength is required, but which are not subject to wear, such as hydrostatic cylinders, it is proposed to use an internal cylinder (although not absolutely) necessary), around which are placed a number of dished dises of metal, held together by top and bottom plates served t-geting. Claim.—Employing a series of dished dises, or plates of metal, for packing pistons, stuffing-boxes, silvies, and other parts of machinery, and for forming bearings, and for making cylinders and other forms of metal

JORFH JOHNSON, Haddersfield, York, bricklayer; and JOR CLIFFE, of the same place iron-founder: For improvements in furnaces, or in the means of preventing smoke. The patentee describes and claims—1. A peculiar construction of furnaces for heating atmospheric air, by introducing it through a hollow chamber, or flat pipe, placed immediately over the furnace, or in any other convenient part thereof, into a hollow arch or chamber, constructed near the bridge of the furnace, and causing it to issue therefrom, and commingle with the products of combustion, and consequently consume them by supplying them with the necessary quantity of oxygen. The incombustible and noxious vapours are exhausted by a fan through a chamber, wherein they are subjected to the action of water, or other chemical agent, and absorbed.—2. The employment of the hollow arch or chamber, either in combination with the preceding arrangement, or with any other, for effecting a like purpose.—3. The employment of a second hollow bridge, in combination with the preceding arrangement, which is supplied with heated atmospheric air, whence it escapes, and mingles with the products of combustion in the flue.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

A. F. Remond, of Birmingham, for improvements in the manufacture of envelopes.

E. A. Chameroy, of Paris, for improvements in the manufacture of envelopes.

E. Ad. Chameroy, of Paris, for improvements in the manufacture of boilers and of pipes of malicable substances, as well as of elastic matter.

R. Reid, of Glasgow, manufacturer, for certain improvements in propelling.

C. Dinadale, of Newcastle-upon-Tyne, dentist, for improvements in the manufacture of artificial palates and gums, and mode of setting or fixing natural and artificial teeth.

J. Turner, of Birmingham, engineer, and J. Hardwick, of the same place, for a certain improvement in the construction and setting of ortam-bollers.

G. Attwood, of Birmingham, copper roller manufacturer, for a new or improved method of making tabing of copper or alloys of copper.

C. de Bergue, of Arthur-street, London, angineer, for certain improvements in locomotive and other steam-engines, also in buffers for railway parposes.

J. D. Harris, of Leicester, manufacturer, for improvements in the manufacture of looped fabrics.

opped shrits.

W. Buckwell, of the Artificial Granite Works, Battersea, civil engineer, and G. Fisher, the Braffsell Railway, Cardiff, civil engineer, for improvements in the construction and means of applying carriage and certain other springs.

W. H. Ashursi, of the Old Jewry, gentleman, for improvements in the manufacturing

of varnishes.
Those, of Coleman-street, gentleman, for improvements in machinery for raisis pile upon woven and felted fabrics.

A. M. Marbe, of Birmingham, chemist, for an improved manufacture of vegetifield to be used in the production of artificial light, and in lamps or burners for a saming the same; which vegetable fluid is also applicable to the manufacture of lace translate.

w. Hargreaves, the younger, of Bradford, York, ironfounder, for certain improvem in the means of consuming smoke, parts of which improvements are also applicable generating of steam.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

on and J. Eckeraley, Little Bolton, cop drier. bbott, S. W. Wade, and R. Walshaw, Liverpool, chronometer and watchmakers lead-beat chronometer.

J. Hendry and J. Murphy, Gifford-street, Kingaland-road, refrigerator.

L. Smallwood, Dankerque, improved tile.

Scowen and White, 9, Noble-street, Cheapside, aptandum collar.

G. E. Matthews, Charing-cross, London, pneumo-moniter.

G. F. Hipkins, Birmingham, nut-cracker.

Francis Herbert Wenham, Brixton, parabolic reflector for illuminating objects for a microscope.

COAL MARKET, LONDON.

C A R A D O N V A L E M I N E,

SAINT IVE, NEAR LISKEARD, CORNWALL.

PURKERS—Mr. Sanders, Exeter; the Devon and Cornwall Bank, Exeter and Liskeard.

This mine is situate in the parish of SAINT IVE, near LISKEARD, CORNWALL,
and was worked upon by several poor experienced miners a short time since, to develope
that which they felt convinced existed there—vix., rich copper ore. They drove an adit
70 fms. to hill, and sunk a winze 12 or 15 fms. under that adit to cut the lode, when to
their dismay they were completely impeded by the large quantity of water issuing from
the lode, they having only water-barrels to draw up the same; enficient was, however,
seen to know that rich yellow and black copper ore existed against the cross-course.
There are seven lodes, well defined, and carrying the most extraordinary gossan that can
be seen, with rich peach, prian, feispar, and ore, and every other qualification to convince
miners that great riches exist beneath.

It is proposed that the mine be divided into 1536 shares, at five shirtlines fra share,
being the first deposit, and the liability of each shareholder is not likely to exceed 24
per share, as it is not expected more than 21 per share will be required. The calls, too,
are moderately fixed, not to exceed for per share every two months.

A large number of the shares are already taken up.

A large number of the shares are already taken up.

Application for the remainder may be made to Mr. Thomas Sanford, Exeter; Mr. John tephens, St. Ive, Liskeard; Mr. Edward Suter, Exeter; Mr. James Timewell, Exeter fr. John Seymour, St. Cleer, Liskeard; and Mr. Henry Vatcher, Exeter.

CARADON VALE MINE.

Agreeably with your request, I have inspected the above mine, and report as follows:

—A cross-cut adit has been driven northward from its mouth 50 fathoms, where a very promising lode is cut, averaging from 1 to 2 and 3 feet wide. The lode is composed of gessun, spar, peach, iron pyrites, with stains of carbonate of copper, located in a beautiful killas strain, at a little distance from the granite range of Caradon, and is bounded on the north by Ickenbury, and on the south by South Caradon Mines. The lode is one of great promise, and its situation most favourable; and, on the whole, I judge this adventure to be every way worthy the attention of mining capitalists.

ROBERT DUNSTAN.

West Caradon, Feb. 26, 1850.

CARADON VALE MINE.—Notice is hereby given, that
NO FURTHER APPLICATIONS FOR SHARES will be received after Thursday,
be 28th day of APRIL instant.
CHARLES COLLINS, Purser.
Exciter, April 4, 1850.

ROCHE ROCK TIN MINING COMPANY. Capital £5000, in 5000 shares, of £1 each. No further call will be required, and no liabilities can be incurred. NOW AT WORK ON THE COST-BOOK SYSTEM.

WILLIAM WILSON, Esq. THOMAS FULLER, Esq.
JOHN CREFT, Esq. (With power to add to their number.)

BANKERS—The London and County Joint-Stock Bank.

MANAGER ON THE MINE—Captain Pinch.

SECRETARY—John Marriner, Esq.

OFFICES-1, ROYAL EXCHANGE BUILDINGS, LONDON

OFFICES—1, ROYAL EXCHANGE BUILDINGS, LONDON.

This valuable MINE is situate in the parish of ROCHE, near St. Austell, CORNWALL, and is held under a lease of 21 years, at a royalty of 1-20th. It is bounded on the southwest by Old Beam Mine, and on the south-east by the Great Rocks Tin Mines—two of the largest and richest mines ever worked in this district; the attested profits from which exceed £20,000—both of which are now at work. The set is in the junction of the killas and granife, which greatly enhances its value.

There are five well-known lodes of a very productive description, two of which are now being worked on; they are 3 feet wide, and carry a leader of solid the 4 inches thick—the average produce being 6 cwis, of into the 100 sacks of work. The mine is worked at present by water-power; the shaft is 10 fathoms deep, and cross cuts are driven to intersect the north and south lodes. The tin is of the finest quality, and realises the highest price in the market. Tribute pitches are now set at 10s, in the £1. There are at present now working one 14-feet water-wheel, with three heads, of the finest quality, and realises the highest price in the market. Tribute pitches are now set at 10s, in the £1. There are at present now working one 14-feet water-wheel, with three heads, one 10-feet wheel, with three heads, one 10-feet wheel, and a lift of 9-inch pumps, with all necessary flat-rods and dressing floors. It is proposed to erect a 30-inch steam-engine, and put the mine down 40 fathoms, when enough its ground will be laid open to make large returns. Offers have been made by the miners to take tribute pitches at 5s. in the £1, paying all returning charges when at that depth—consequently, profits will be made available for regular dividends at a large per centage. It has been estimated that the capital will be amply sufficient to put the mine in a paying state, and which can be done in about three stonths. The above capital is required to purchase powerful steam-engines, in order to sink the shaft to a greate

all further particulars may be obtained of the secretary.

CAFTAIN PHILLIP PINOR'S REPORT.

Stra,—Agreeably with your wish, I have inspected Roche Rock Mine. Being a native of this place, I have had frequent opportunities of making myself well acquainted with it. It is situate in one of the best localities for making a rich mine, as may be proved by the Great Rocks and Beam Mines, which are adjoining. I do not consider it any speculation, as the lodes are now cut, and producing very rich work for thi; it is exactly between the killas and granite, and where most all its lodes make rich. A shaft is sunk at the south part of the sett, and connected with the water-engine by flat-rock; indiving the cross-cut, two lodes were discovered of very excellent quality—one of them producing 6 cets. of tin to the 100 sacks of work—the other about 4 cets; this is all from the backs of the 10 fm. lavel. The north lode is 3 ft. wide, with a leader of solid tin, from 3 to 4 in. wide, and carrying the throughout; the south lode is not so large, but very good: the produce at present exceeds the average of tin mines. My opinion of this mine, as a practical miner, I must say, as, that, looking at the favourable locality, the quantity of lodes it contains, and produce from the present shallow depth, the advantage of having the stamps close on the sopt, the present lodes opon for inspection, together with the easy access to it, and the small cost of working it, that it will amply remanerate any party, and pay handsome dividends at once.

The above mine, to which the reports refer, will be worked on the "Coet-book Sys-

The above mine, to which the reperts refer, will be worked on the "Cost-book Sysm," which relieves shareholders from all liabilities beyond the amount of their shares value, which reneres snareficiners from all liabilities beyond the amount of their sha Applications for shares to be made to the secretary, at the office, who will give on feates for the same,

WHEAL SAMSON CONSOLS GOLD, SILVER, AND

In 10,000 shares, of £1 each—all paid. No calls.—No liabilities.—No forfeiture of a OFFICES - No. 15, FISH - STREET - HILL, LONDON.

No calss.—Ao issolines.—Ao issolines.—Ao issoliure of salares.

OFFICES —No. 18, PISH.—SREEZ-HILL, LONDON.

The MINE is situated on the north-east coast of CORNWALL. Large branches from the lode run out to the sea, in consequence of which the whole of the lode is completely drained to the depth of from 70 to 80 fathoms.—all of which form backs by the rising of the cliffs, and may be worked away by levels from the sea shore, obviating the necessity of creeting machinery or sinking engine-shafes—the swo most formidable features of outlay in all ordinary mining operations and afording an opportunity of opening the mine, and doing as much work on the lode for £1000, as would, in ordinary instances, involve an outlay of from £15,000 to £20,000.

The sett is very extensive. The lode is fall 6 feet in width, and has been opened on the back by shoding pits, to ascertain its course and continuous character. The branches have been driven upon for many fathoms. The gossan and the spar are full of large spots assay, made by Mr. Johnson, produced—copper, §1 per cent.; allver, \$40 cas, per ton of ore; gold, It dwis. 42 grs.; while some samples have been obtained exceeding 1500 cs. of silver to the ton of ore, and some upwards of 5 cas. of gold.

Considerable outlay has been made by the present lesses to ascertain the course and other peculiarities of the lode; and such being now satisfactorily obtained, the future operations will be confined to entering the cliff by driving at various levels, upon the principal branch (which is 5 feet wide) towards the junction, where there is not the slightest doubt of a very valuable course of ore. The junction takes place about 50 fms. inland; by driving an adit from the level of the sea, backs will be obtained of from 70 and 80 faithoms; and, as the branches are found to carry ore to within 15 fathoms of the surface, time the considerably less than the proposed capital will now put the mine in full and effective operation.

The following opinions, from the best authorities on ores and mi

The following opinions, from the best authorities on ores and mines, are fully tory of the great value of the Wheal Samson Mine:—

The following opinions, from the best authorities on ores and mines, are fully confirmatory of the great value of the Wheal Samson Mine:—

Mr. Percival Johnson, of the Assay Office, Hatton-garden, the manager of the Tamas Mines and Beeralston Sinciding Works, states that "he knows the Wheal Samson perfectly, having frequently and minutely examined the property, with the intention of obtaining the sett, prior to lis coming into the possessien of the present lessee. That, from, such examinations, he was very desirous of obtaining the property, but did not succeed, in consequence of its being under agreement of lease to other parties. That he had himself frequently broken ores from the lode, carrying more than 1900 oss, of silver to the cut in and that the gossan and spar were full of spots of gold. That bolders, washed out of she lode by the action of the waves, were frequently to its pleted up on the seas shore of the same rich quality. That the whole bay was branced by the branches of the lode, examing the crumbling of the cliffs. That the lode split up on running out into the cliff, in consequence of a hard piece of ground; but that the country changed at a few fathoms inland, where the lode united, and passed through a very rich and well laminated clayslate, most congenial for the existence of minerals: that to such Juneton the mining operations ought to be directed—that the working of this mine would be sttended with but trifling expense, as compared with ordinary mining operations, that the character of the ground, and the quality of the orse extracted from the branches, justify the most sanguine expectations—that he considered the highly valuable and very extraordinary mine, well worthy of being prosecution, discriming prospects, and one which he should not have allowed to slip through his fingers had be not been so fully occupied in his other mines and smelting operations at Beeralston, on the opposite side of the county. Capt. Sparcy, the mining agent under whom the late operations have been conducted, a

SECOND-HAND SCIENTIFIC BOOKS.—Just published, a LIST OF SCIENTIFIC BOOKS, in the various departments of Engineering (Inding Mining), Mechanical, Mathematical, and Kautical Science; also Arts, Trades, and unfactures—offered at very reduced prices by E. & F. N. SPON, 6, Crombie's-row, mmercial-road East, London.—Forwarded to all parts of Great Britain on receipt of

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7, BANK BUILDINGS, LOTHBURY, LONDON.

(ADJOINING THE GOVERNMENT ANNOTH OFFICE, GLD JEWRY).

BIECTORS.

KENYON S. PARKER, ESQ., Q.C., Lincoin's-inn, Chataman.

George I. Raymond Barker, Esq., Dagling worth, near Circucester.

The Lord Arthomas F. Clinton, Cariton Villas, Edgware-road.

Richard Fawkes, Esq., Laurel Lodge, Barner.

The Lord A. Edwin Hill, M.P., Norwood-park, Southwell, Notts.

Thomas Knox Holmes, Baq., Fludyer-street, Westminster.

Hon. Richard E. Howard, Temple.

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MPROVED LIFTING IMPROVED BATCHET MANUFACTURED BY W. AND J. GALLOWAY, PATENT RIVET WORKS, MANCHESTER. Lifting Backs,

is respectfully requested to the superiority of those annexed, over those hitherto in use. BY HER MAJESTY'S ROYAL LETTERS PATENT.
IMPORTANT TO RAILWAY COMPANIES, CARRIERS, AND OTHERS.

IMPORTANT TO RAILWAY COMPANIES, CARRIERS, AND OTHERS.

ROWLAND BROTHERHOOD'S TILT, for COVERING RAILWAY TRUCKS, WAGGONS, &c.

This invention allows of trucks or waggons being covered or uncovered with surprising ease and facility, so that one porter can uncover two trucks in the space of a minute, and two can re-cover both in the same time. It allowed a small portion, or the whole area of the truck, being uncovered, and affords great facility for loading and unloading, and protecting the goods in these operations, as well as in the course of transit. It can be secured by locks and keys, thus rendering merchandies secure from plunder. It is cheap in its construction, can be applied to rallway trucks and waggong generally, and is easily attached or detached. It runs smoothly through the air at high specifs, and against head winds.

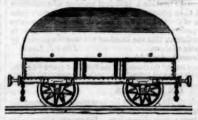
This Tilt has been in use on different parts of the bread guage during the winter, and has been found to work remarkably well in the severest weather. Experienced and practical persons, who have the management of large goods' stations, and have seen these tilts in working, and who know the great wear and tear of cloths, tarpauling, &c., and the inconvenience of existing modes for goods' covering, are of opinion that these Tilts will be of great utility in railway service. The patentes is himself prepared either to construe or, on moderate terms, to license parties to construct his patent Tilts.

Applications to be addressed to R. Brotherhood, Railway-Works, Chippenham, Wilts.

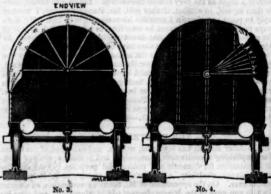


the tilt closed and fas-

No. 1.



applied to a box, waggon



No. 3.

This is an end elevation of the same on a larger scale, showing the pin and fan which supports and carries over the longitudinal bearers to which the cloth is attached, and which when open lies compactly folded along the side of the truck, leaving the whole area of the truck open for receiving or discharging its contents by crane or otherwise.

The sill is amplied to box, or low-sided true. The tilt is applied to box, or low-sided trucks, with curved longitu

ame on a

This is an end elevation of the same, snowan which ing the tilt partially closed, ac that the whole
gludinal or any portion of the truck can be open at
hed, and pleasure, affording means of protection for
led along part of the morchandles, whilat the other is
hele area being loaded or unloaded, or the truck may
charging be used entirely uncovered, without the uli
in the least interfering.

ondon: Printed by Richard Middleron, and published by Herest English printers), at their offices, No. 26, Flere-street, where all communications are installed to addressed.